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2009 ANNUAL SUMMARY ISSUE

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Hospitalizations among members of active components, U.S. Armed Forces, 2008

his report documents frequencies, rates, and characteristics of hospitalizations of members of the active components of the U.S. Armed Forces during calendar year 2008. Summaries are based on standardized records of hospitalizations in U.S. military and non-military (reimbursed care) medical facilities worldwide. The primary reasons for hospitalizations are summarized based on the first three digits of the ICD-9-CM codes that were reported as primary (first-listed) discharge diagnoses. Hospitalizations not routinely documented with standardized, automated records (e.g., during deployments, field training exercises, shipboard) are not included in this summary. Of note, for the first time, hospitalizations of Coast Guard members are included in the annual summary.

Frequencies, rates, and trends:

In 2008, there were 76,190 reports of hospitalizations of active component members of the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard (Table 1) — approximately one-third (31%) of the hospitalizations were in non-military facilities (Figure 1). The hospitalization rate (all causes) was 53.7 per 1,000 service members per year. For the past ten years, hospitalization rates overall have been remarkably stable; however, rates of hospitalization of active component service members in U.S. military medical facilities have declined (Figure 1).

Hospitalizations, by illness and injury categories:

As in recent prior years, in 2008, three diagnostic categories accounted for more than one-half (53.5%) of all hospitalizations of active component service members: pregnancy-related

conditions and childbirth (20.8%), mental disorders (19.1%), and injuries and poisonings (13.5%) (Table 1).

Between 2004 and 2008, numbers of hospitalizations increased in only one of the six major categories that accounted for the most hospitalizations overall; in 2008 compared to 2004, there were 41.1% (n, 2008-2004:+4,245) more hospitalizations for mental disorders (Table 1). During the same period, hospitalizations for injuries and poisonings and pregnancy-related conditions and childbirth declined by 17.9% (n, 2008-2004:-2,236) and 10.4% (n, 2008-2004:-1,846), respectively. (Table 1).

Hospitalizations, by gender:

In 2008, the hospitalization rate (all causes) was 3.3-times higher among females than males (hospitalization rate, overall: females: 133.4 per 1,000 person-years [p-yrs]; males: 40.6 per 1,000 p-yrs). However, for conditions not related to pregnancy and childbirth (which accounted for 59.2% of all hospitalizations of females), the crude hospitalization rate among females (54.5 per 1,000 per year) was 34% higher than among males.

Hospitalization rates were higher among males than females for injuries and poisonings (male:female [m:f], rate ratio [RR]: 1.41; rate difference [RD]: 2.20 per 1,000 p-yrs), skin and subcutaneous tissue disorders (m:f, RR: 1.34; RD: 0.39 per 1,000 p-yrs), circulatory disorders (m:f, RR: 1.21; RD: 0.31 per 1,000 p-yrs), musculoskeletal/connective tissue disorders (m:f, RR: 1.11; RD: 0.48 per 1,000 p-yrs), and respiratory diseases (m:f, RR: 1.07; RD: 0.13 per 1,000 p-yrs). Hospitalization rates were higher among females

Table 1. Hospitalizations, ICD-9 diagnostic categories, U.S. Armed Forces, 2004, 2006, and 2008

		2004			2006			2008	
Major diagnostic category (ICD-9-CM)	No.	Rate*	Rank	No.	Rate*	Rank	No.	Rate*	Rank
Pregnancy and childbirth (630 - 679, relevant V codes)	17,719	12.19	(1)	16,424	11.72	(1)	15,873	11.18	(1)
Mental disorders (290 - 319)	10,340	7.11	(3)	11,267	8.04	(2)	14,585	10.27	(2)
Injury and poisoning (800 - 999)	12,518	8.61	(2)	10,552	7.53	(3)	10,282	7.24	(3)
Musculoskeletal system (710 - 739)	6,946	4.78	(5)	6,420	4.58	(5)	6,936	4.89	(4)
Digestive system (520 - 579)	7,336	5.05	(4)	6,658	4.75	(4)	6,845	4.82	(5)
Signs, symptoms and ill-defined conditions (780 - 799)	4,497	3.09	(6)	4,365	3.12	(6)	3,883	2.74	(6)
Respiratory system (460 - 519)	2,730	1.88	(8)	2,862	2.04	(7)	2,742	1.93	(7)
Circulatory system (390 - 459)	2,443	1.68	(9)	2,615	1.87	(8)	2,523	1.78	(8)
Genitourinary system (580 - 629)	3,009	2.07	(7)	2,610	1.86	(9)	2,405	1.69	(9)
Other (E81-E99 and V01-V82, except pregnancy-related)	1,357	0.93	(12)	1,574	1.12	(12)	2,190	1.54	(10)
Skin and subcutaneous tissue (680 - 709)	2,041	1.40	(10)	2,128	1.52	(11)	2,133	1.50	(11)
Neoplasms (140 - 239)	2,013	1.38	(11)	2,173	1.55	(10)	2,063	1.45	(12)
Nervous system (320 - 389)	1,173	0.81	(14)	1,128	0.81	(14)	1,341	0.94	(13)
Infectious and parasitic diseases (001 - 139)	1,293	0.89	(13)	1,245	0.89	(13)	1,152	0.81	(14)
Endocrine, nutrition, immunity (240 - 279)	793	0.55	(15)	900	0.64	(15)	665	0.47	(15)
Congenital anomalies (740 - 759)	378	0.26	(16)	329	0.23	(17)	321	0.23	(16)
Hematologic disorders (280 - 289)	375	0.26	(17)	488	0.35	(16)	251	0.18	(17)
Totals	76,961	52.94		73,738	52.63		76,190	53.67	

^{*}Rate per 1,000 person years

than males for all other major categories. The largest absolute differences in hospitalization rates between females and males were for genitourinary disorders (RD: 5.65 per 1,000 p-yrs) and mental disorders (RD: 3.30 per 1,000 p-yrs).

Hospitalization rates in relation to age significantly varied across diagnostic categories (Figure 2). For example, among both males and females, hospitalization rates for neoplasms and circulatory, genitourinary, and musculoskeletal/connective tissue disorders sharply increased with age; hospitalization rates for mental, respiratory, and skin/subcutaneous tissue disorders generally decreased with age (Figure 2).

Most frequent diagnoses:

In 2008, seven diagnoses (as specified by 3-digit codes of the ICD-9-CM) accounted for more than 1,000 hospitalizations each among males: adjustment reactions (n=3,538), affective psychoses (n=3,037), intervertebral disc disorders (n=1,952), acute appendicitis (n=1,605), alcohol dependence syndrome (1,419), symptoms involving the respiratory system and chest (n=1,376), and other cellulitis and abscess (n=1,355) (Table 2). These seven diagnoses accounted for nearly one-third (28.9%) of all hospitalizations of males during 2008.

As in the past, in 2008, conditions associated with pregnancy and childbirth caused the most hospitalizations by far among females (Table 3). Other than pregnancy and childbirth-related diagnoses, leading causes of hospitalizations of females were affective psychoses (n=918), adjustment reactions (n=727), uterine leiomyoma (n=461), intervertebral disc disorders (n=265), depressive disorder (n=240), and acute appendicitis (n=218) (Table 3). These six diagnoses accounted for approximately one-fourth (25.8%) of all hospitalizations of females (not related to pregnancy/childbirth).

Injuries and poisonings:

As in the past, in 2008, injuries and poisonings accounted for more hospitalizations of U.S. service members than any other category of diagnoses except pregnancy/childbirth-related conditions and mental disorders (Table 1). Of injury and poisoning-related hospitalizations with documented "causes," approximately one of seven (14.2%) were considered intentionally inflicted (e.g., enemy weapons; suicide gestures/attempts; fights, assaults, legal interventions); of those, 55% were reported as "battle casualties" (Table 4). As in the past, the most frequently reported causes of unintentional injuries/poisonings were "falls and miscellaneous," complications of medical/surgical care, and land transportation accidents (Table 4).

Among both males and females, "other complications of procedures, not elsewhere classified" caused more injury and poisoning-related hospitalizations than any other diagnoses (Tables 2,3). However, among males, the next most frequent causes of injury/poisoning-related hospitalizations were fractures of bones of the ankle, face, and leg; and concussions (Table 2). Among females, the next most frequent causes of injury/poisoning-related hospitalizations were poisonings (by analgesics, antipyretics, antirheumatics, and psychotropic agents), ankle fractures, complications affecting specified body systems, and complications of specified procedures (Table 3).

Durations of hospitalization:

As in previous years, in 2008, median durations of hospitalization varied across diagnostic categories – from one day (for "signs, symptoms, and ill-defined conditions") to five days (for mental disorders) (Figure 3). Median durations of hospitalization for all other categories of diagnoses were two or three days (Figure 3). In contrast to median durations of

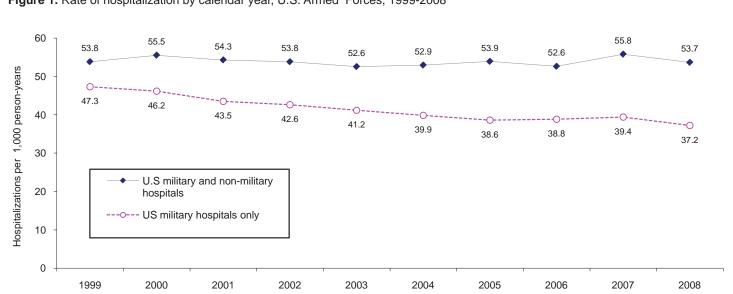


Figure 1. Rate of hospitalization by calendar year, U.S. Armed Forces, 1999-2008

Table 2. Most frequent diagnoses during hospitalization, by major diagnostic category, males, U.S. Armed Forces, 2008

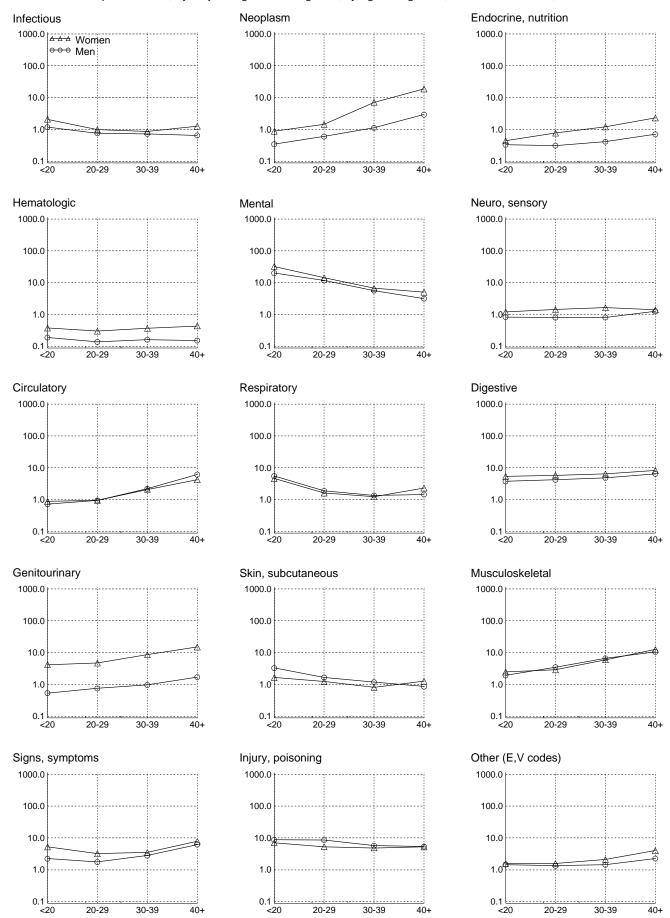
iagnostic category (ICD-9-CM codes)	No. o	% ategory
Infectious and parasitic diseases (001 - 139)	936	
Meningitis due to enterovirus	165	17.6
Intestinal infections due to other organisms	135	14.4
Viral & chlamydial infection	95	10.1
Septicemia	83	8.9
III-defined intestinal infections	55	5.9
Neoplasms (140 - 239)	1,191	
Cancer of thyroid gland	74	6.2
Cancer of prostate	71	6.0
Other cancer of lymphoid and histiocytic tissue	60	5.0
Cancer of testis	58	4.9
Secondary cancer of respiratory and digestive systems	43	3.6
Endocrine, nutrition, immunity (240 - 279)	466	
Diabetes mellitus	175	37.6
Disorders of fluid, electrolyte and acid-base balance	108	23.2
Nontoxic nodular goiter	37	7.9
Obesity and other hyperalimentation	35	7.5
Thyrotoxicosis with or without goiter	24	5.2
Hematologic disorders (280 - 289)	183	5.2
Other diseases of blood and blood-forming organs	40	21.9
Purpura and other hemorrhagic conditions	35	19.1
·		
Diseases of white blood cells	26	14.2
Other and unspecified anemias	23	12.6
Iron deficiency anemias	21	11.5
Mental disorders (290 - 319)	11,947	
Adjustment reaction	3,538	29.6
Affective psychoses	3,037	25.4
Alcohol dependence syndrome	1,419	11.9
Depressive disorder, nec	891	7.5
Neurotic disorders	713	6.0
Nervous system (320 - 389)	1,044	
Epilepsy	148	14.2
Migraine	137	13.1
Other conditions of brain	78	7.5
Other and unspecified disorders of the nervous system	49	4.7
Other paralytic syndromes	45	4.3
Circulatory system (390 - 459)	2,219	
Cardiac dysrhythmias	478	21.5
Other forms of chronic ischemic heart disease	214	9.6
Acute pulmonary heart disease	202	9.1
Acute myocardial infarction	181	8.2
Other venous embolism and thrombosis	117	5.3
Respiratory system (460 - 519)	2,375	
Pneumonia, organism unspecified	765	32.2
Pneumothorax	166	7.0
Deviated nasal septum	151	6.4
·	142	
Other diseases of lung		6.0
Peritonsillar abscess	139	5.9

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Table 3. Most frequent diagnoses during hospitalization, by major diagnostic category, females, U.S. Armed Forces, 2008

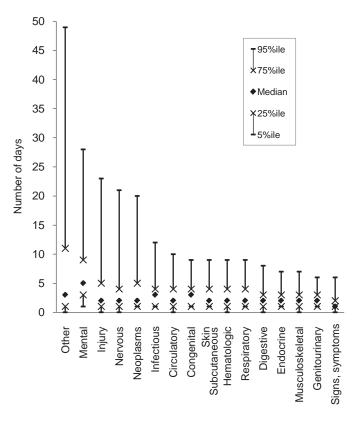
iagnostic category (ICD-9-CM codes) No. % category	Diagnostic category (ICD-9-CM codes)	Diagnostic category (ICD-9-CM codes) No.
infectious and parasitic diseases (001 - 139) 216	Digestive system (520 - 579)	Digestive system (520 - 579) 1,240
Meningitis due to enterovirus 42 19.4	Acute appendicitis	Acute appendicitis 218
Intestinal infections due to other organisms 40 18.5	Cholelithiasis	Cholelithiasis 174
Septicemia 27 12.5	Dentofacial anomalies, including malocclusion	Dentofacial anomalies, including malocclusion 142
Viral & chlamydial infection cond classed elsewhere/site 27 12.5	Other noninfective gastroenteritis and colitis	Other noninfective gastroenteritis and colitis 90
Herpes simplex 16 7.4	Other hernia of abdominal cavity w/o obstruction or gang	Other hernia of abdominal cavity w/o obstruction or gang 58
Neoplasms (140 - 239) 872	Genitourinary system (580 - 629)	Genitourinary system (580 - 629) 1,315
Uterine leiomyoma 461 52.9	Menstrual disorder, other abnormal bleeding	Menstrual disorder, other abnormal bleeding 202
Cancer of thyroid gland 65 7.5	Noninflammatory disorder ovary, fallopian tube	Noninflammatory disorder ovary, fallopian tube 165
Benign neoplasm of ovary 50 5.7	Pain & other symptoms associated with genital org	
Cancer of female breast 45 5.2	Infections of kidney	
Cancer of brain 14 1.6	Other disorders of breast	•
Endocrine, nutrition, immunity (240 - 279) 199		Pregnancy complications (630-679, relevant Vcodes) 15,873
Nontoxic nodular goiter 43 21.6	Trauma to perineum and vulva during delivery	
Obesity and other hyperalimentation 33 16.6	Other indications for care related to labor and delivery	
Disorders of fluid, electrolyte and acid-base balance 28 14.1	Maternal abnormality of organs and soft tissues of pelv.	•
Thyrotoxicosis with or without goiter 25 12.6	Other current conditions complicating pregnancy	
Diabetes mellitus 19 9.5	Abnormality of forces of labor	
Hematologic disorders (280 - 289) 68	Skin and subcutaneous tissue (680 - 709)	
Iron deficiency anemias 24 35.3	Other cellulitis and abscess	
Other and unspecified anemias 10 14.7	Pilonidal cyst	
·	•	
3 - 3	Disorders of sweat glands	-
Purpura and other hemorrhagic conditions 6 8.8	Other hypertrophic and atrophic conditions of skin	
Diseases of white blood cells 6 8.8	Other disorders of skin and subcutaneous tissue	
Mental disorders (290 - 319) 2,638	Musculoskeletal system (710 - 739)	
Affective psychoses 918 34.8	Intervertebral disc disorders	
Adjustment reaction 727 27.6	Internal derangement of knee	-
Depressive disorder, nec 240 9.1	Other derangement of joint	Other derangement of joint 70
Alcohol dependence syndrome 182 6.9	Other disorders of bone and cartilage	Other disorders of bone and cartilage 65
Neurotic disorders 169 6.4	Other and unspecified disorders of back	Other and unspecified disorders of back 63
Nervous system (320 - 389) 297	Signs, symptoms, ill-defined conditions (780 - 799)	Signs, symptoms, ill-defined conditions (780 - 799) 779
Migraine 83 27.9	General symptoms	General symptoms 211
Epilepsy 39 13.1	Other symptoms involving abdomen and pelvis	Other symptoms involving abdomen and pelvis 211
Other conditions of brain 17 5.7	Symptoms involving respiratory system, chest	Symptoms involving respiratory system, chest 208
Pain, not elsewhere classified 14 4.7	Symptoms involving digestive system	
Other and unspecified disorders of the nervous system 11 3.7	Symptoms involving head and neck	
Circulatory system (390 - 459) 304	Injury and poisoning (800 - 999)	· · · · ·
Cardiac dysrhythmias 60 19.7	Other complications of procedures, nec	
Acute pulmonary heart disease 46 15.1	Poisoning by analgesics, antipyretics & antirheumatics	
Other venous embolism and thrombosis 26 8.6	Fracture of ankle	
Occlusion of cerebral arteries 15 4.9	Complications affecting specified body systems nec	
Hemorrhoids 13 4.3	Complications affecting specified body systems field Complications peculiar to certain specified procedures	
Respiratory system (460 - 519) 367	Other (E81-E99 and V01-V82, except pregnancy)	
Pneumonia, organism unspecified 82 22.3	Other and unspecified aftercare	·
Asthma 48 13.1	Observation & eval, suspected condition,not found	•
Acute tonsillitis 29 7.9	Care involving use of rehabilitation procedures	•
Peritonsillar abscess 28 7.6	Other orthopedic aftercare	
Acute upper respiratory infection of multiple or unspec 24 6.5	Procreative management	Procreative management 24

Figure 2: Rate of hospitalizations*, by major diagnostic categories, by age and gender, U.S. Armed Forces, 2008



^{*}Rates expressed as hospitalizations per 1,000 person-years.

Figure 3. Length of hospital stay, by major diagnostic category, active component, U.S. Armed Forces, 2008



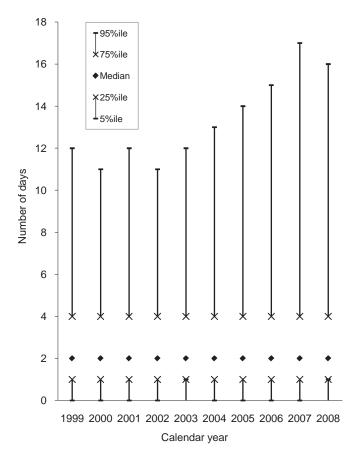
Major, diagnostic category (ICD-9-CM)

Table 4. Injury hospitalizations by causal agent,* U.S. Armed Forces, 2008

Cause	No.	%
Unintentional	6,106	59.4
Fall and miscellaneous	1,884	18.3
Complications of medical/surgical	1,251	12.2
Land transport	815	7.9
Guns, explosives (includes accidents during war)	532	5.2
Poisons and fire	497	4.8
Athletics	479	4.7
Machinery, tools	252	2.5
Air transport	190	1.8
Environmental	181	1.8
Water transport	25	0.2
Intentional	1,014	9.9
Battle casualty	561	5.5
Self-inflicted	343	3.3
Non-battle, inflicted by other (e.g., assault)	110	1.1
Missing/invalid code	3,162	30.8

^{*}Causal agents were determined by codes IAW STANAG 2050.

Figure 4. Length of hospital stay, by year, active component, U.S. Armed Forces, 2008



hospitalization, ranges significantly varied across diagnostic categories (Figure 3). For example, in 2008, approximately 5% of hospitalizations for mental disorders were longer than 28 days, but fewer than 5% of hospitalizations for pregnancy/childbirth-related conditions exceeded 5 days. Finally, the median durations of hospitalizations of U.S. service members have been stable (2 days) for the last ten years. (Figure 4).

Hospitalizations by service:

In the Navy, Air Force, and Coast Guard, pregnancy and childbirth accounted for more hospitalizations than any other category of illnesses or injuries. Still, there were more pregnancy/childbirth-related hospitalizations among members of the Army than any other Service (Table 5, Figure 5).

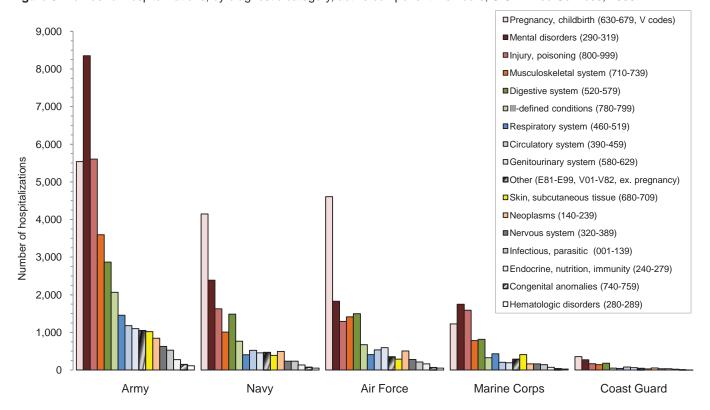
In the Army and Marine Corps, mental disorders and injuries/poisonings were the leading causes of hospitalizations. In the Army, the hospitalization rate for mental disorders was approximately two-thirds higher than in the Marine Corps and more than two-times higher than in the other Services. In the Army, the hospitalization rate for injuries/poisonings was approximately 30% higher than in the Marine Corps and more than two-times higher than in the other Services (Table 5, Figure 5).

Table 5. Hospitalizations, by Service and ICD-9 diagnostic category, U.S. Armed Forces, 2008

	Ar	my	Na	vy	Air F	orce	Marine	Corps	Coast	Guard	Ove	erall
Major diagnostic category (ICD-9-CM)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
Pregnancy & childbirth (630-679, V codes)	5,538	10.4	4,146	12.7	4,607	14.2	1,225	6.3	357	8.6	15,873	11.2
Mental disorders (290 - 319)	8,354	15.7	2,388	7.3	1,825	5.6	1,746	9.0	272	6.6	14,585	10.3
Injury and poisoning (800-999)	5,607	10.5	1,626	5.0	1,293	4.0	1,587	8.2	169	4.1	10,282	7.2
Musculoskeletal system (710-739)	3,593	6.8	1,008	3.1	1,412	4.3	782	4.0	141	3.4	6,936	4.9
Digestive system (520-579)	2,869	5.4	1,485	4.5	1,498	4.6	814	4.2	179	4.3	6,845	4.8
III-defined conditions (780-799)	2,065	3.9	764	2.3	674	2.1	328	1.7	52	1.3	3,883	2.7
Respiratory system (460-519)	1,455	2.7	405	1.2	410	1.3	432	2.2	40	1.0	2,742	1.9
Circulatory system (390-459)	1,180	2.2	523	1.6	536	1.7	204	1.0	80	1.9	2,523	1.8
Genitourinary system (580-629)	1,100	2.1	457	1.4	594	1.8	193	1.0	61	1.5	2,405	1.7
Other (E81-E99 and V01-V82, ex. pregnancy)	1,047	2.0	466	1.4	350	1.1	285	1.5	42	1.0	2,190	1.5
Skin and subcutaneous tissue (680-709)	1,019	1.9	387	1.2	290	0.9	408	2.1	29	0.7	2,133	1.5
Neoplasms (140-239)	845	1.6	495	1.5	505	1.6	164	0.8	54	1.3	2,063	1.5
Nervous system (320-389)	628	1.2	236	0.7	282	0.9	163	0.8	32	8.0	1,341	0.9
Infectious and parasitic diseases (001-139)	527	1.0	236	0.7	212	0.7	142	0.7	35	8.0	1,152	8.0
Endocrine, nutrition, immunity (240-279)	276	0.5	133	0.4	164	0.5	73	0.4	19	0.5	665	0.5
Congenital anomalies (740-759)	145	0.3	73	0.2	64	0.2	35	0.2	4	0.1	321	0.2
Hematologic disorders (280-289)	114	0.2	54	0.2	54	0.2	27	0.1	2	0.0	251	0.2
Totals	36,362	68.4	14,882	45.4	14,770	45.5	8,608	44.3	1,568	38.0	76,190	53.7

^{*}Rate per 1,000 person-years

Figure 5. Number of hospitalizations, by diagnostic category, active component members, U.S. Armed Services, 2008



Editorial comment:

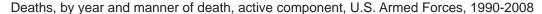
In 2008, on average, 5.3% of active component service members were hospitalized. Annual overall hospitalization rates have not significantly changed in the past decade.

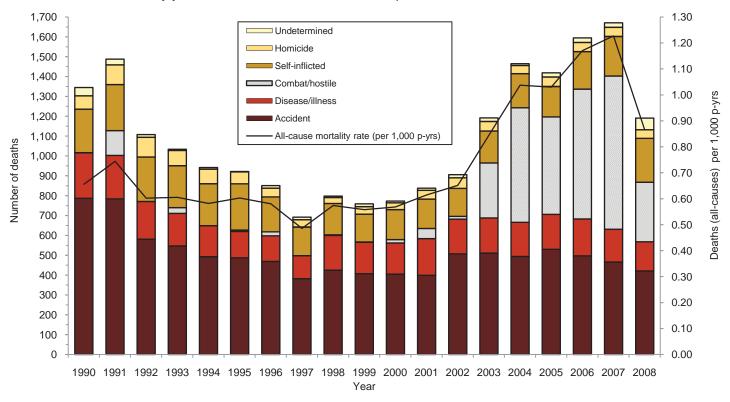
As in the past, in 2008, pregnancy and childbirth, mental disorders, and injuries accounted for more than one-half of all hospitalizations of service members. Hospitalizations for mental disorders — but not pregnancy/childbirth or injuries — sharply increased in the past few years.

In 2008, adjustment reactions, affective psychosis, and intervertebral disc disorders were leading causes of hospitalizations of both male and female service members. In recent years, significant resources have been focused on detecting, diagnosing, and treating mental disorders — especially those related to combat stress — and decreasing barriers to care for such conditions. Increased resources are indicated to improve prevention, treatment, and rehabilitation of back injuries among service members.

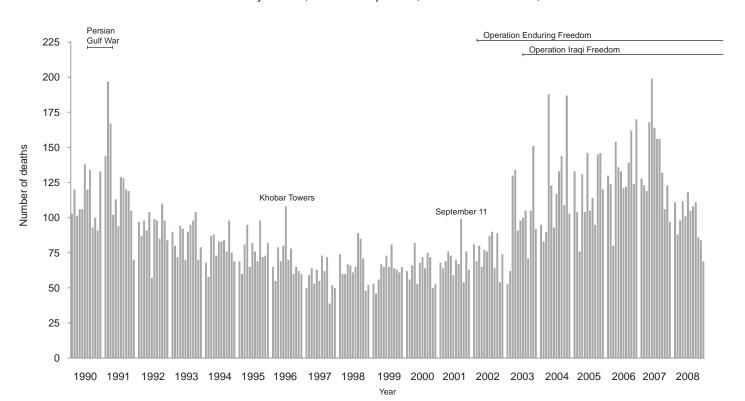
SURVEILLANCE SNAPSHOT:

Deaths among active component service members, 1990-2008





Number of deaths by month, active component, U.S. Armed Forces, 1990-2008



Ambulatory visits among members of active components, U.S. Armed Forces, 2008

his report documents frequencies, rates, and characteristics of ambulatory visits of active component members of the U.S. Armed Forces during calendar year 2008. Ambulatory visits of U.S. service members in fixed military and non-military (reimbursed through the Military Health System) medical treatment facilities are documented with standardized, automated records. These records are routinely archived for health surveillance purposes in the Defense Medical Surveillance System which is the source of data for this report. Records of ambulatory visits not documented with automated records (e.g., during deployments, field training exercises, shipboard) are not included.

For this report, all records of ambulatory visits of active component U.S. service members in 2008 were categorized based on the first three digits of the primary (first-listed) diagnosis code (International Classification of Diseases, 9th revision, clinical modifications [ICD-9-CM]). Of note, for the first time, ambulatory visits of Coast Guard members are included in the annual summary.

Frequencies, rates, and trends:

During 2008, there were 14,496,946 reported ambulatory visits of active component service members (Table 1). The crude annual rate (all causes) was 10,211 visits per 1,000 service members; thus, on average, each service member had more than 10 clinic visits during the year (Figure 1). The rate

2000

1999

2001

2002

of documented ambulatory visits in 2008 was slightly higher (1.8%) than in 2007 – and more than 50% higher than in 1999 (Figure 1).

In 2008, nearly one-half (45.7%) of all ambulatory visits were for "other contact with health services." This category (indicated by "V" codes of the ICD-9-CM) includes health care not related to a current illness or injury (e.g., counseling, immunization, deployment-related health assessment, routine and special medical examination, e.g., periodic, occupational, retirement) as well as ongoing treatment for illness or injury (e.g., physical therapy) (Tables 2,3). Three "V-coded" diagnoses accounted for the majority of the visits in this category: general health examination (31.7%), care involving use of rehabilitation procedures (15.8%), and special investigations and examinations (8.1%).

In 2008, there were 7,878,481 documented ambulatory visits for illnesses and injuries (ICD-9-CM: 001-999). The crude annual rate for illness and injury-related visits was 5.55 visits per person per year (p-yr). The rate of ambulatory visits for illnesses and injuries in 2008 was approximately 6.1% and 10.1% higher than in 2006 and 2004 respectively (Table 1).

Distribution of visits, by diagnostic categories:

2005

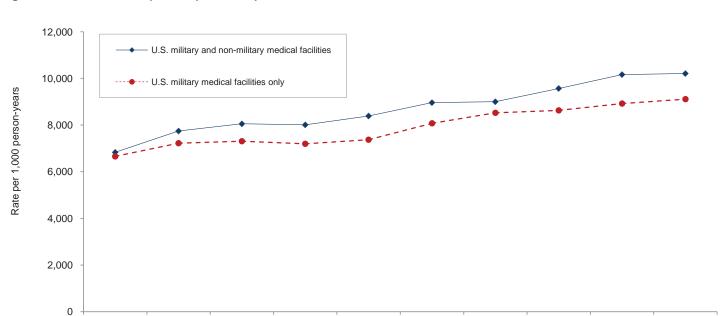
2004

2006

2007

2008

In 2008, the illness and injury-related categories that accounted for the most ambulatory visits were musculoskeletal and connective tissue disorders (24.1%), mental disorders (14.0%), injuries and poisonings (11.2%), "signs, symptoms



2003

Figure 1. Rate of ambulatory visits by calendar year, U.S. Armed Forces, 1999-2008

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and ill-defined conditions" (10.2%), and nervous system and sense organ disorders (8.9%) (Table 1). As in the past, nearly one-half (49.3%) of all illness and injury-related visits were due to musculoskeletal and connective tissue disorders, injuries and poisonings, and mental disorders (Table 1).

Over the past 5 years, the relative distributions of ambulatory visits by diagnostic categories remained fairly stable with a few notable exceptions. Between 2004 and 2008, the numbers of visits for mental disorders and musculoskeletal and connective tissue disorders increased by 68% and 15%, respectively; in the same period, the number of visits for infectious and parasitic diseases decreased by 20%. In relation to visits attributable to each of the 16 illness and injury-related diagnostic categories, between 2004 and 2008, mental disorders increased from seventh to the third, and infectious and parasitic diseases decreased from tenth to twelfth, in rank order. Since 2004, mental disorders is the only category than has changed by more than 2 ranks in regard to attributable visits (Table 1).

From 2006 to 2008, there were decreases in numbers of visits in 10 illness and injury-related categories and increases in six categories. The largest absolute increases in annual attributable visits from 2006 to 2008 were for mental disorders (difference, 2008 vs. 2004: +448,082) and musculoskeletal and connective tissue disorders (difference, 2008 vs. 2004: +259,582). The largest absolute decreases in attributable visits from 2006 to 2008 were for infectious and

parasitic diseases (difference, 2008 vs. 2004: -58,652) and diseases of the respiratory system (difference, 2008 vs. 2004: -46,090) (Table 1).

Ambulatory visits, by gender:

In 2008, males accounted for three-fourths (74.6%) of all illness and injury-related visits; however, the annual crude rate was approximately twice as high among females (9.96 visits/p-yr) than males (4.83 visits/p-yr). Excluding pregnancy-related visits (which accounted for 14.4% of all ambulatory visits among females), the ambulatory visit rate among females was 8.52 visits/p-yr. As in the past, rates were higher among females than males for every illness and injury-related category (Figure 2).

The same five illness and injury-specific diagnoses (at the 3-digit level of the ICD-9-CM) accounted for the most ambulatory visits among both males and females (Tables 2,3). For each of the most frequently reported diagnoses, the rate was higher among females than males: other/unspecified disorders of joints (rates [per 1,000 p-yrs], female: 556.4; male: 340.9; female:male rate ratio [RR]: 1.63); other/unspecified disorders of the back (rates, female: 411.2; male: 252.7; RR: 1.63); disorders of refraction and accommodation (rates, female: 247.6; male: 152.6; RR: 1.62); adjustment reactions (rates, female: 345.2; male: 232.1; RR: 1.49); and acute upper respiratory infections of multiple or unspecified

Table 1. Ambulatory visits, ICD-9 diagnostic categories, U.S. Armed Forces, 2004, 2006, and 2008

	2004				2006		2008			
Major diagnostic category (ICD-9-CM)		No. per person	Rank	No	No. per person	Rank	No	No. per person	Rank	
Other (V01-V82, except pregnancy-related)	5,698,806	3.92	(1)	6,087,734	4.34	(1)	6,618,465	4.66	(1)	
Musculoskeletal system (710 - 739)	1,642,153	1.13	(2)	1,653,676	1.18	(2)	1,901,735	1.34	(2)	
Mental disorders (290 - 319)	657,144	0.45	(7)	780,893	0.56	(4)	1,105,196	0.78	(3)	
Injury and poisoning (800 - 999)	897,451	0.62	(3)	885,035	0.63	(3)	879,441	0.62	(4)	
Signs, symptoms and ill-defined conditions (780 - 799)	818,079	0.56	(4)	743,773	0.53	(5)	804,077	0.57	(5)	
Nervous system and sense organs (320 - 389)	736,122	0.51	(5)	706,675	0.50	(6)	699,473	0.49	(6)	
Respiratory system (460 - 519)	722,167	0.50	(6)	678,475	0.48	(7)	676,077	0.48	(7)	
Dermatological diseases (680 - 709)	353,866	0.24	(8)	368,993	0.26	(8)	363,772	0.26	(8)	
Pregnancy complications (630 - 679, relevant V codes)	298,572	0.21	(9)	301,746	0.22	(9)	288,297	0.20	(9)	
Digestive system (520 - 579)	254,752	0.18	(11)	270,297	0.19	(10)	258,287	0.18	(10)	
Genitourinary system (580 - 629)	253,439	0.17	(12)	246,032	0.18	(12)	238,423	0.17	(11)	
Infectious and parasitic diseases (001 - 139)	289,623	0.20	(10)	255,171	0.18	(11)	230,971	0.16	(12)	
Circulatory system (390 - 459)	149,017	0.10	(13)	162,970	0.12	(13)	158,128	0.11	(13)	
Endocrine, nutrition, immunity (240 - 279)	125,778	0.09	(14)	126,342	0.09	(14)	124,375	0.09	(14)	
Neoplasms (140 - 239)	91,319	0.06	(15)	99,877	0.07	(15)	105,664	0.07	(15)	
Congenital anomalies (740 - 759)	22,757	0.02	(16)	25,225	0.02	(16)	25,948	0.02	(16)	
Hematologic disorders (280 - 289)	17,288	0.01	(17)	18,106	0.01	(17)	18,617	0.01	(17)	
Totals	13,028,333	8.96		13,411,020	9.57		14,496,946	10.21		

Table 2. Most frequent diagnoses during ambulatory visits by major diagnostic category, males, U.S. Armed Forces, 2008

Diagnostic category (ICD-9-CM codes)	No.	%
Infectious and parasitic diseases (001 - 139)	175,902	
Viral & chlamydial infection	38,494	21.9
Other diseases due to viruses and chlamydiae	35,958	20.4
Dermatophytosis	28,313	16.1
Intestinal infections due to other organisms	12,588	7.2
Streptococcal sore throat and scarlatina	8,782	5.0
Neoplasms (140 - 239)	79,416	
Benign neoplasm of skin	13,884	17.5
Neoplasm of uncertain behavior, other/unspec site	10,698	13.5
Lipoma	8,369	10.5
Neoplasm of unspecified nature	7,624	9.6
Cancer of testis	3,492	4.4
Endocrine, nutrition, immunity (240 - 279)	95,628	
Disorders of lipoid metabolism	34,679	36.3
Diabetes mellitus	16,580	17.3
Obesity and other hyperalimentation	13,322	13.9
Disorders of fluid, electrolyte and acid-base balance	5,940	6.2
Acquired hypothyroidism	5,567	5.8
Hematologic disorders (280 - 289)	11,068	
Other and unspecified anemias	2,966	26.8
Hereditary hemolytic anemias	1,793	16.2
Purpura and other hemorrhagic conditions	1,432	12.9
Diseases of white blood cells	1,418	12.8
Other diseases of blood and blood-forming organs	1,266	11.4
Mental disorders (290 - 319)	882,575	
Adjustment reaction	282,137	32.0
Alcohol dependence syndrome	133,738	15.2
Nondependent abuse of drugs	117,736	13.3
Neurotic disorders	95,224	10.8
Affective psychoses	73,080	8.3
Nervous system (320 - 389)	554,998	
Disorders of refraction and accommodation	185,464	33.4
Organic sleep disorders	67,515	12.2
Disorders of conjunctiva	34,508	6.2
Hearing loss	34,053	6.1
Migraine	22,884	4.1
Circulatory system (390 - 459)	134,315	
Essential hypertension	66,105	49.2
Hemorrhoids	14,234	10.6
Cardiac dysrhythmias	10,972	8.2
Varicose veins of other sites	4,717	3.5
Other forms of chronic ischemic heart disease	3,965	3.0
Respiratory system (460 - 519)	518,478	
Acute upper respiratory infection, unspecified site	134,954	26.0
Allergic rhinitis	60,734	11.7
Acute pharyngitis	60,025	11.6
Acute nasopharyngitis (common cold)	46,380	8.9
Chronic sinusitis	30,433	5.9

Diseases of esophagus 29,551 14.7 Inguinal hernia 12,488 6.2 Gastrointestinal hemorrhage 11,567 5.8 Gastritis and duodenitis 11,048 5.5 Calculus of kidney and ureter 17,827 18.5 Other disorders of male genital organs 12,892 13.4 Other disorders of urethra and urinary tract 10,892 11.3 Infertility, male 6,627 6.9 Dermatological diseases (680 - 709) 285,312 11.2 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759)<	Diagnostic category (ICD-9-CM codes)	No.	%
Diseases of esophagus 29,551 14.7 Inguinal hernia 12,488 6.2 Gastrointestinal hemorrhage 11,567 5.8 Gastritis and duodenitis 11,048 5.5 Genitourinary system (580 - 629) 96,138 Calculus of kidney and ureter 17,827 18.5 Other disorders of male genital organs 12,892 13.4 Other disorders of urethra and urinary tract 10,892 11.3 Infertility, male 6,627 6.9 Dermatological diseases (680 - 709) 285,312 11.2 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 14.500 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Interve	Digestive system (520 - 579)	201,044	
Inguinal hernia 12,488 6.2 Gastrointestinal hemorrhage 11,567 5.8 Gastritis and duodenitis 11,048 5.5 Cenitourinary system (580 - 629) 96,138	Other noninfective gastroenteritis and colitis	54,730	27.2
Gastrointestinal hemorrhage 11,567 5.8 Gastritis and duodenitis 11,048 5.5 Genitourinary system (580 - 629) 96,138 Calculus of kidney and ureter 17,827 18.5 Other disorders of male genital organs 12,892 13.4 Other disorders of urethra and urinary tract 10,892 11.3 Orchitis and epididymitis 10,725 11.2 Infertility, male 6,627 6.9 Dermatological diseases (680 - 709) 285,312 1 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Int	Diseases of esophagus	29,551	14.7
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Calculus of kidney and ureter 17,827 18.5 Other disorders of male genital organs 12,892 13.4 Other disorders of urethra and urinary tract 10,892 11.3 Orchitis and epididymitis 10,725 11.2 Infertility, male 6,627 6.9 Dermatological diseases (680 - 709) 285,312 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital	Gastritis and duodenitis	11,048	5.5
Other disorders of male genital organs 12,892 13.4 Other disorders of urethra and urinary tract 10,892 11.3 Orchitis and epididymitis 10,725 11.2 Infertility, male 6,627 6.9 Dermatological diseases (680 - 709) 285,312 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 19,153	Genitourinary system (580 - 629)	96,138	
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Dermatological diseases (680 - 709) 285,312 Other cellulitis and abscess 53,990 18.9 Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of urinary system 89 4.2 Ill-defined conditions (780 - 799) 590,069 99 <	Orchitis and epididymitis	10,725	11.2
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Contact dermatitis and other eczema 41,504 14.5 Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 9 General symptoms 137,408 23.3 Symptoms involving head and neck 55,959 9.5	Dermatological diseases (680 - 709)	285,312	
Diseases of hair and hair follicles 39,519 13.9 Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 9 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19	Other cellulitis and abscess	53,990	18.9
Diseases of sebaceous glands 34,273 12.0 Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 27.9 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 90 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving digestive system <	Contact dermatitis and other eczema	41,504	14.5
Diseases of nail 15,775 5.5 Musculoskeletal system (710 - 739) 1,486,541 Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 990,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 <td>Diseases of hair and hair follicles</td> <td>39,519</td> <td>13.9</td>	Diseases of hair and hair follicles	39,519	13.9
Musculoskeletal system (710 - 739)1,486,541Other and unspecified disorders of joint414,50627.9Other and unspecified disorders of back307,16820.7Peripheral enthesopathies and allied syndromes103,6257.0Intervertebral disc disorders97,0196.5Nonallopathic lesions, nec89,1846.0Congenital anomalies (740 - 759)19,153Certain congenital musculoskeletal deformities5,74330.0Congenital anomalies of the integument2,89215.1Other congenital musculoskeletal anomalies2,88415.1Other congenital anomalies of limbs2,01510.5Congenital anomalies of urinary system8094.2Ill-defined conditions (780 - 799)590,069General symptoms137,40823.3Symptoms involving respiratory system, chest112,36019.0Other symptoms involving abdomen and pelvis66,73611.3Symptoms involving head and neck55,9599.5Symptoms involving digestive system51,4998.7Injury and poisoning (800 - 999)746,266Sprains and strains of ankle and foot79,98510.7Sprains and strains of shoulder and upper arm43,5415.8Injury, other and unspecified33,9284.5Other (E81-E99 and V01-V82)5,303,094General medical examination1,784,03333.6Care involving use of rehabilitation procedures846,19616.0Special investigations and examinations37	Diseases of sebaceous glands	34,273	12.0
Other and unspecified disorders of joint 414,506 27.9 Other and unspecified disorders of back 307,168 20.7 Peripheral enthesopathies and allied syndromes 103,625 7.0 Intervertebral disc disorders 97,019 6.5 Nonallopathic lesions, nec 89,184 6.0 Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Diseases of nail	15,775	5.5
Other and unspecified disorders of back Peripheral enthesopathies and allied syndromes Intervertebral disc disorders Nonallopathic lesions, nec Rengenital anomalies (740 - 759) Peripheral anomalies (740 - 759) Peripheral anomalies of the integument Congenital anomalies of the integument Peripheral anomalies of the integument Peripheral anomalies of limbs Congenital anomalies of limbs Peripheral anomalies of limbs Peripheral anomalies of urinary system Peripheral urinary system Peripheral urinary system urinary syst	Musculoskeletal system (710 - 739)	1,486,541	
Peripheral enthesopathies and allied syndromes Intervertebral disc disorders Nonallopathic lesions, nec Sepaintal anomalies (740 - 759) Certain congenital musculoskeletal deformities Congenital anomalies of the integument Congenital anomalies of the integument Congenital anomalies of limbs Congenital anomalies of limbs Congenital anomalies of limbs Congenital anomalies of urinary system Soponose Suppose of the integument Congenital anomalies of limbs Congenital anomalies of urinary system Soponose Suppose of urinary system Soponose Suppose of the integument Soponose Suppose of urinary system Soponose Soponose Suppose of urinary system Soponose Soponose Suppose of urinary system Soponose Soponose Soponose Suppose of urinary system Soponose So	Other and unspecified disorders of joint	414,506	27.9
Intervertebral disc disorders Nonallopathic lesions, nec Congenital anomalies (740 - 759) Certain congenital musculoskeletal deformities Congenital anomalies of the integument Congenital musculoskeletal anomalies Congenital musculoskeletal anomalies Congenital musculoskeletal anomalies Congenital musculoskeletal anomalies Congenital anomalies of limbs Congenital anomalies of urinary system Rop General symptoms Symptoms involving respiratory system, chest Other symptoms involving abdomen and pelvis Symptoms involving digestive system Injury and poisoning (800 - 999) Topics Sprains and strains of ankle and foot Sprains and strains of shoulder and upper arm Injury, other and unspecified Other (E81-E99 and V01-V82) Special investigations and examinations Encounters for administrative purposes 359,390 6.8	Other and unspecified disorders of back	307,168	20.7
Nonallopathic lesions, nec Congenital anomalies (740 - 759) Certain congenital musculoskeletal deformities Congenital anomalies of the integument Congenital anomalies of the integument Congenital anomalies of limbs Congenital anomalies of limbs Congenital anomalies of limbs Congenital anomalies of urinary system Roy Congenital anomalies of limbs Cangenital anomalies of limbs Congenital anomalies of l	Peripheral enthesopathies and allied syndromes	103,625	7.0
Congenital anomalies (740 - 759) 19,153 Certain congenital musculoskeletal deformities 5,743 30.0 Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains of shoulder and upper arm 43,541 5.8 Sprains and strains of shoulder and upper arm 43,541 5.8 Other (E81-E99 and V01-V82)	Intervertebral disc disorders	97,019	6.5
Certain congenital musculoskeletal deformities Congenital anomalies of the integument 2,892 15.1 Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) General symptoms Symptoms involving respiratory system, chest Other symptoms involving abdomen and pelvis Symptoms involving head and neck 55,959 Symptoms involving digestive system Injury and poisoning (800 - 999) Sprains and strains of ankle and foot Sprains and strains of knee and leg 76,924 Sprains and strains, other/unspec back Sprains and strains of shoulder and upper arm Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) General medical examination Care involving use of rehabilitation procedures Special investigations and examinations Encounters for administrative purposes 359,390 6.8	Nonallopathic lesions, nec	89,184	6.0
Congenital anomalies of the integument Other congenital musculoskeletal anomalies Other congenital anomalies of limbs Congenital anomalies of limbs Congenital anomalies of urinary system 809 4.2 III-defined conditions (780 - 799) General symptoms 137,408 Symptoms involving respiratory system, chest Other symptoms involving abdomen and pelvis Symptoms involving head and neck 55,959 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes	Congenital anomalies (740 - 759)	19,153	
Other congenital musculoskeletal anomalies 2,884 15.1 Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Certain congenital musculoskeletal deformities	5,743	30.0
Other congenital anomalies of limbs 2,015 10.5 Congenital anomalies of urinary system 809 4.2 III-defined conditions (780 - 799) 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7	Congenital anomalies of the integument	2,892	15.1
Congenital anomalies of urinary system 809 4.2 Ill-defined conditions (780 - 799) 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Other congenital musculoskeletal anomalies	2,884	15.1
Ill-defined conditions (780 - 799) 590,069 General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Other congenital anomalies of limbs	2,015	10.5
General symptoms 137,408 23.3 Symptoms involving respiratory system, chest 112,360 19.0 Other symptoms involving abdomen and pelvis 66,736 11.3 Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Congenital anomalies of urinary system	809	4.2
Symptoms involving respiratory system, chest Other symptoms involving abdomen and pelvis Symptoms involving head and neck S5,959 9.5 Symptoms involving digestive system S1,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back Sprains and strains of shoulder and upper arm A3,541 Sprains and strains of shoulder and upper arm A3,541 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) Special medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures Special investigations and examinations Encounters for administrative purposes 359,390 6.8	III-defined conditions (780 - 799)	590,069	
Other symptoms involving abdomen and pelvis Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 Sprains and strains of knee and leg 76,924 70,985 7	General symptoms	137,408	23.3
Symptoms involving head and neck 55,959 9.5 Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Symptoms involving respiratory system, chest	112,360	19.0
Symptoms involving digestive system 51,499 8.7 Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Other symptoms involving abdomen and pelvis	66,736	11.3
Injury and poisoning (800 - 999) 746,266 Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 10,100 11,784,033 11,784,033 12,80 Care involving use of rehabilitation procedures 11,784,033 12,00 Special investigations and examination 12,784,033 13,094 Encounters for administrative purposes 15,303,094 6,80 6,80 6,80 6,80 6,80 6,80 6,80 6,80 6,80 6,80	Symptoms involving head and neck	55,959	9.5
Sprains and strains of ankle and foot 79,985 10.7 Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Symptoms involving digestive system	51,499	8.7
Sprains and strains of knee and leg 76,924 10.3 Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Injury and poisoning (800 - 999)	746,266	
Sprains and strains, other/unspec back 55,315 7.4 Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Sprains and strains of ankle and foot	79,985	10.7
Sprains and strains of shoulder and upper arm 43,541 5.8 Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Sprains and strains of knee and leg	76,924	10.3
Injury, other and unspecified 33,928 4.5 Other (E81-E99 and V01-V82) 5,303,094 General medical examination 1,784,033 33.6 Care involving use of rehabilitation procedures 846,196 16.0 Special investigations and examinations 370,103 7.0 Encounters for administrative purposes 359,390 6.8	Sprains and strains, other/unspec back	55,315	7.4
Other (E81-E99 and V01-V82)5,303,094General medical examination1,784,03333.6Care involving use of rehabilitation procedures846,19616.0Special investigations and examinations370,1037.0Encounters for administrative purposes359,3906.8	Sprains and strains of shoulder and upper arm	43,541	5.8
General medical examination1,784,03333.6Care involving use of rehabilitation procedures846,19616.0Special investigations and examinations370,1037.0Encounters for administrative purposes359,3906.8	Injury, other and unspecified	33,928	4.5
Care involving use of rehabilitation procedures846,19616.0Special investigations and examinations370,1037.0Encounters for administrative purposes359,3906.8	Other (E81-E99 and V01-V82)	5,303,094	
Special investigations and examinations370,1037.0Encounters for administrative purposes359,3906.8	General medical examination	1,784,033	33.6
Encounters for administrative purposes 359,390 6.8	Care involving use of rehabilitation procedures	846,196	16.0
	Special investigations and examinations	370,103	7.0
Other well persons seeking care w/o sickness 298,240 5.6	Encounters for administrative purposes	359,390	6.8
	Other well persons seeking care w/o sickness	298,240	5.6

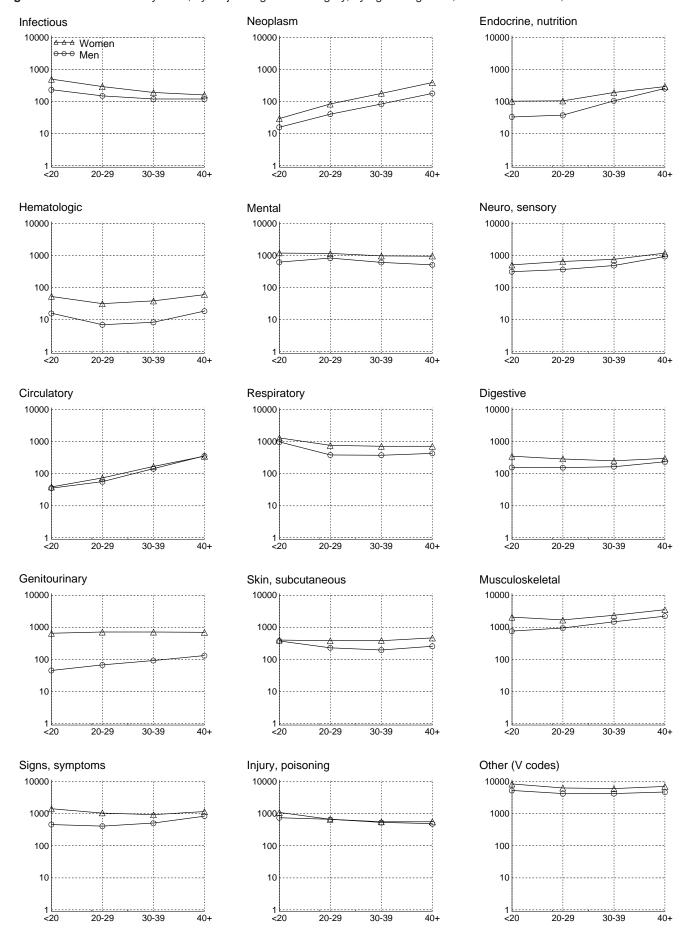
APRIL 2009

Table 3. Most frequent diagnoses during ambulatory visits by major diagnostic category, females, U.S. Armed Forces, 2008

Infectious and parasitic diseases (001 - 139) 55,068 Viral & chlamydial infection 14,331 26.0 Candidiasis 7,463 13.6 Other diseases due to viruses and chlamydiae 7,036 12.8 Dermatophytosis 4,695 8.7 Intestinal infections due to other organisms 4,016 7.3 Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 8.6 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289)	Diagnostic category (ICD-9-CM codes)	No.	%
Candidiasis 7,463 13.6 Other diseases due to viruses and chlamydiae 7,036 12.8 Dermatophytosis 4,695 8.5 Intestinal infections due to other organisms 4,016 7.3 Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 18.1 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias	Infectious and parasitic diseases (001 - 139)	55,069	
Other diseases due to viruses and chlamydiae 7,036 12.8 Dermatophytosis 4,695 8.5 Intestinal infections due to other organisms 4,016 7.3 Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of llipid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 574 7.6 Other diseases of blood and blood-forming organs 4	Viral & chlamydial infection	14,331	26.0
Dermatophytosis 4,695 8.5 Intestinal infections due to other organisms 4,016 7.3 Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 8.6 Disorders of lipid metabolism 5,030 17.5 Disorders of lipid metabolism 2,473 8.6 Disorders of lipid metabolism 2,473 8.6 Disorders of lipid metabolism 2,474 8.6 Disorders of lipid metabolism 2,473 8.6 Disorders of lipid metabolism 2,874 </td <td>Candidiasis</td> <td>7,463</td> <td>13.6</td>	Candidiasis	7,463	13.6
Intestinal infections due to other organisms 4,016 7.3 Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747	Other diseases due to viruses and chlamydiae	7,036	12.8
Neoplasms (140 - 239) 26,248 Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747	Dermatophytosis	4,695	8.5
Benign neoplasm of skin 4,583 17.5 Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Affective psychoses	Intestinal infections due to other organisms	4,016	7.3
Uterine leiomyoma 3,918 14.9 Cancer of female breast 2,905 11.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747	Neoplasms (140 - 239)	26,248	
Cancer of female breast 2,905 1.1.1 Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,879 38.1 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders, nec 26,390 </td <td>Benign neoplasm of skin</td> <td>4,583</td> <td>17.5</td>	Benign neoplasm of skin	4,583	17.5
Neoplasm of uncertain behavior, oth & unspec site 2,670 10.2 Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,879 38.1 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390	Uterine leiomyoma	3,918	14.9
Neoplasm of unspecified nature 1,839 7.0 Endocrine, nutrition, immunity (240 - 279) 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144	Cancer of female breast	2,905	11.1
Endocrine, nutrition, immunity (240 - 279) 28,747 Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4	Neoplasm of uncertain behavior, oth & unspec site	2,670	10.2
Obesity and other hyperalimentation 6,386 22.2 Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 609 8.1 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of conjunctiva 9,508 6.6	Neoplasm of unspecified nature	1,839	7.0
Acquired hypothyroidism 5,030 17.5 Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 609 8.1 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 226,221 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 <td>Endocrine, nutrition, immunity (240 - 279)</td> <td>28,747</td> <td></td>	Endocrine, nutrition, immunity (240 - 279)	28,747	
Disorders of lipoid metabolism 2,473 8.6 Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 <td>Obesity and other hyperalimentation</td> <td>6,386</td> <td>22.2</td>	Obesity and other hyperalimentation	6,386	22.2
Disorders of fluid, electrolyte and acid-base balance 2,346 8.2 Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 <	Acquired hypothyroidism	5,030	17.5
Ovarian dysfunction 2,114 7.4 Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0	Disorders of lipoid metabolism	2,473	8.6
Hematologic disorders (280 - 289) 7,549 Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813	Disorders of fluid, electrolyte and acid-base balance	2,346	8.2
Other and unspecified anemias 2,879 38.1 Iron deficiency anemias 2,155 28.5 Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias	Ovarian dysfunction	2,114	7.4
Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis (common cold) 12,857 8.2	Hematologic disorders (280 - 289)	7,549	
Purpura and other hemorrhagic conditions 609 8.1 Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 <	Other and unspecified anemias	2,879	38.1
Hereditary hemolytic anemias 574 7.6 Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory	Iron deficiency anemias	2,155	28.5
Other diseases of blood and blood-forming organs 489 6.5 Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7<	Purpura and other hemorrhagic conditions	609	8.1
Mental disorders (290 - 319) 222,621 Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified s	Hereditary hemolytic anemias	574	7.6
Adjustment reaction 69,382 31.2 Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 <tr< td=""><td>Other diseases of blood and blood-forming organs</td><td>489</td><td>6.5</td></tr<>	Other diseases of blood and blood-forming organs	489	6.5
Affective psychoses 35,966 16.2 Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8	Mental disorders (290 - 319)	222,621	
Neurotic disorders 32,628 14.7 Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Adjustment reaction	69,382	31.2
Depressive disorder, nec 26,390 11.9 Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Affective psychoses	35,966	16.2
Alcohol dependence syndrome 15,959 7.2 Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Neurotic disorders	32,628	14.7
Nervous system (320 - 389) 144,475 Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Depressive disorder, nec	26,390	11.9
Disorders of refraction and accommodation 49,764 34.4 Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Alcohol dependence syndrome	15,959	7.2
Migraine 21,413 14.8 Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Nervous system (320 - 389)	144,475	
Disorders of conjunctiva 9,508 6.6 Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Disorders of refraction and accommodation	49,764	34.4
Mononeuritis of upper limb and mononeuritis multiplex 5,507 3.8 Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Migraine	21,413	14.8
Suppurative and unspecified otitis media 4,327 3.0 Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Disorders of conjunctiva	9,508	6.6
Circulatory system (390 - 459) 23,813 Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Mononeuritis of upper limb and mononeuritis multiplex	5,507	3.8
Essential hypertension 8,757 36.8 Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Suppurative and unspecified otitis media	4,327	3.0
Hemorrhoids 3,130 13.1 Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Circulatory system (390 - 459)	23,813	
Cardiac dysrhythmias 2,241 9.4 Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Essential hypertension	8,757	36.8
Varicose veins of lower extremities 1,787 7.5 Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Hemorrhoids	3,130	13.1
Diseases of capillaries 1,115 4.7 Respiratory system (460 - 519) 157,599 Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Cardiac dysrhythmias	2,241	9.4
Respiratory system (460 - 519)157,599Acute upper respiratory infection, unspecified site41,07226.1Allergic rhinitis22,82714.5Acute pharyngitis20,10612.8Acute nasopharyngitis (common cold)12,8578.2	Varicose veins of lower extremities	1,787	7.5
Acute upper respiratory infection, unspecified site 41,072 26.1 Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Diseases of capillaries	1,115	4.7
Allergic rhinitis 22,827 14.5 Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Respiratory system (460 - 519)	157,599	
Acute pharyngitis 20,106 12.8 Acute nasopharyngitis (common cold) 12,857 8.2	Acute upper respiratory infection, unspecified site	41,072	26.1
Acute nasopharyngitis (common cold) 12,857 8.2	Allergic rhinitis	22,827	14.5
	Acute pharyngitis	20,106	12.8
Chronic sinusitis 11,298 7.2	Acute nasopharyngitis (common cold)	12,857	8.2
	Chronic sinusitis	11,298	7.2

Diagnostic category (ICD-9-CM codes)	No.	%
Digestive system (520 - 579)	57,243	
Other noninfective gastroenteritis and colitis	19,140	33.4
Functional digestive disorders, nec	7,601	13.3
Diseases of esophagus	5,721	10.0
Gastritis and duodenitis	4,122	7.2
Gastrointestinal hemorrhage	2,068	3.6
Genitourinary system (580 - 629)	142,285	
Pain & other symptoms, female genital organs	21,690	15.2
Menstrual disorder, other abnormal bleeding	18,683	13.1
Other disorders of urethra and urinary tract	17,918	12.6
Inflammatory disease of cervix, vagina and vulva	17,380	12.2
Noninflammatory disorders of cervix	11,668	8.2
Pregnancy complications (630 - 679, V codes)	288,297	
Normal pregnancy	126,208	43.8
Postpartum care and examination	24,676	8.6
Other current conditions complicating pregnancy	16,507	5.7
Other complications of pregnancy, nec	16,108	5.6
Supervision of high-risk pregnancy	10,372	3.6
Dermatological diseases (680 - 709)	78,460	
Diseases of sebaceous glands	15,887	20.2
Contact dermatitis and other eczema	12,441	15.9
Other cellulitis and abscess	9,511	12.1
Diseases of hair and hair follicles	6,533	8.3
Other disorders of skin and subcutaneous tissue	5,150	6.6
Musculoskeletal system (710 - 739)	415,194	
Other and unspecified disorders of joint	111,840	26.9
Other and unspecified disorders of back	82,667	19.9
Nonallopathic lesions, nec	33,343	8.0
Other disorders of soft tissues	31,952	7.7
Peripheral enthesopathies and allied syndromes	23,509	5.7
III-defined conditions (780 - 799)	214,008	
Other symptoms involving abdomen and pelvis	36,876	17.2
General symptoms	31,212	14.6
Symptoms involving respiratory system, chest	29,670	13.9
Nonspecif abnormal histological/immunological findings	26,010	12.2
Symptoms involving digestive system	23,979	11.2
Injury and poisoning (800 - 999)	133,175	
Sprains and strains of ankle and foot	17,088	12.8
Sprains and strains of knee and leg	17,035	12.8
Sprains and strains, other/unspec back	14,019	10.5
Contusion of lower limb and of other/unspec site	5,380	4.0
Certain adverse effects, nec	5,135	3.9
Other (E81-E99 and V01-V82, ex. pregnancy)	1,315,371	
General medical examination	316,085	24.0
Care involving use of rehabilitation procedures	202,557	15.4
Special investigations and examinations	171,316	13.0
Other well persons seeking care w/o sickness	99,581	7.6
Encounters for administrative purposes	88,869	6.8

Figure 2. Rate of ambulatory visits, by major diagnostic category, by age and gender, U.S. Armed Forces, 2008



sites (rates, female: 204.3; male: 111.0; RR: 1.84) (Tables 2,3).

Across diagnostic categories, relationships between age and ambulatory visit rates were generally similar among males and females (Figure 2). For example, among both males and females, ambulatory visit rates for neoplasms and circulatory disorders were more than 10-times higher among those older than 40 than younger than 20 years old; in contrast, clinic visit rates for injuries and poisonings, infectious and parasitic diseases, and mental disorders were generally lower among the oldest compared to younger service members. As in the past, clinic visit rates for genitourinary disorders were fairly stable across all age groups among females but sharply increased with age among males (Figure 2).

Dispositions after ambulatory visits:

Approximately two-thirds (63.5%) of all illness and injury-related visits resulted in "duty without limitations" dispositions (Figure 3). Fewer than one of 25 (4.0%) illness and injury-related visits resulted in "convalescence in quarters" dispositions (Figure 3). As in the past, the diagnostic categories with the highest proportions of "convalescence in quarters" or limited duty dispositions were injuries and poisonings (26.5%), diseases of the respiratory system (24.2%), diseases of the digestive system (22.9%) and musculoskeletal and connective tissue disorders (21.1%) (Figure 3). Musculoskeletal and connective tissue disorders and injuries and poisonings accounted for two-thirds (66.7%) of all "limited duty" dispositions (Figure 3). Diseases of the respiratory system

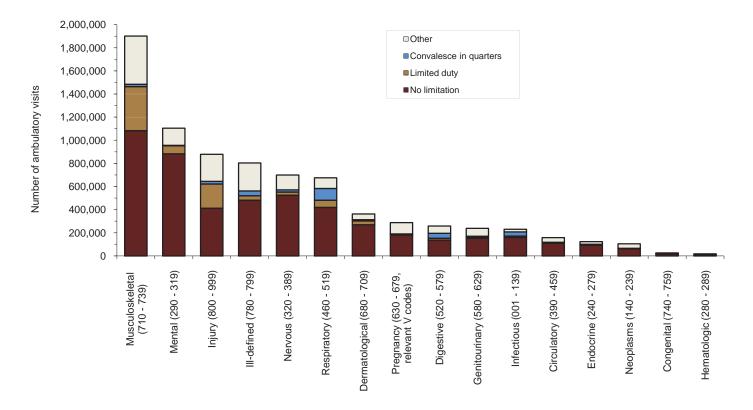
accounted for nearly one-third (32.3%) of all "convalescence in quarters" dispositions – more than twice as many (n= 100,673) as any other disease category (Figure 3).

Editorial comment:

In the past five years, the distribution of illness and injury-related ambulatory visits in relation to their reported causes has remained fairly stable. Of note, however, from 2004 to 2008, documented visits for mental disorders increased by more than 68%. Thus, in 2008, musculoskeletal and connective tissue disorders, injuries and poisonings, and mental disorders accounted for nearly one-half of all illness and injury-related ambulatory visits and more than one-half of all "limited duty" dispositions among active component service members. Prevention and clinical care resources should be focused in these general areas. As in the past, in 2008, back pain/injuries accounted for extraordinarily large numbers of ambulatory visits and lost duty time; resources should be focused on preventing, treating, and rehabilitating back pain/injuries.

The findings of this report should be interpreted in light of the fact that ambulatory care that is delivered by unit medics and by deployed (including in Afghanistan, Iraq, and at sea) medical treatment facilities are not archived in the Defense Medical Surveillance System and are not included in this report. For many reasons, the natures and rates of illnesses and injuries among service members who are deployed likely vary from those of their counterparts.

Figure 3. Ambulatory visits in relation to reported dispositions, by diagnostic category, active components, U.S. Armed Forces, 2008



Absolute and relative morbidity burdens attributable to various illnesses and injuries, U.S. Armed Forces, 2008

erceptions of the relative importance of various conditions in military populations often determine the priorities for and the natures and magnitudes of resources for primary, secondary, and tertiary prevention activities. Because judgments regarding the importance of various threats to military members are not made in a systematic or objective manner, threats that have high priorities for prevention resources may have relatively low impacts on the health, fitness, and readiness of service members; the operational effectiveness of U.S. military units; or the U.S. Military Health System (e.g., costs associated with treatment). On the other hand, conditions that have relatively high impacts on the health, fitness, and effectiveness of service members and their units and have high direct costs associated with diagnosis, treatment, rehabilitation, and disability compensation may have few resources devoted to preventing them.

Several classification systems and morbidity measures have been developed to quantify the "public health burdens" that are attributable to various illnesses and injuries in various populations and settings worldwide.1 Not surprisingly, different classification systems and morbidity measures lead to different rankings of illness and injury-specific public health burdens.² For example, in a given population and setting, the illnesses and injuries that account for the most hospitalizations are likely different from those that account for the most outpatient medical encounters; and the illnesses and injuries that account for the most medical encounters overall likely differ from those that affect the most individuals, have the most debilitating or long-lasting effects, and so on.² As a result, the classification system or measure that is used to quantify condition-specific morbidity burdens determines to a large extent the conclusions that are drawn regarding the relative "importance" of various conditions and, in turn, the resources that are indicated to minimize their impacts.

This annual summary uses several measures to estimate the health care burdens that were attributable to various illnesses and injuries among members of the U.S. Armed Forces in 2008.

Methods:

For this summary, we defined illnesses and injuries by grouping related ICD-9-CM coded diagnoses (at the 3-digit level) based on a modified version of the classification system developed for the Global Burden of Disease (GBD) Study.¹ In general, the GBD system groups diagnoses with common pathophysiologic or etiologic bases and/or

significant international health policymaking importance. For our purposes, we broke out some diagnoses (e.g., mental disorders) that are grouped in the GBD system to increase the relevance of the results to the U.S. military and the U.S. Military Health System. We also categorized injuries by the affected anatomic sites rather than the causes because external causes of injuries are not routinely reported in military outpatient records.

For this analysis, we summarized all inpatient and outpatient medical encounters of all active component members of the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard based on the primary (first-listed) diagnosis (if reported with an ICD-9-CM code between 001 and 999).

For this analysis, the "morbidity burdens" attributable to each "condition" were estimated based on the total medical encounters attributable to each condition; total service members affected by each condition (i.e., at least one medical encounter); and total bed-days during hospitalizations for each condition.

Results:

Morbidity burden, by category of conditions:

In 2008, more than three-times as many service members (n=599,229) received medical care for injuries than for any other category of conditions (Figure 1). As in the past, injuries and mental disorders accounted for more medical encounters and hospital bed-days by far than any other category of conditions (Figure 1).

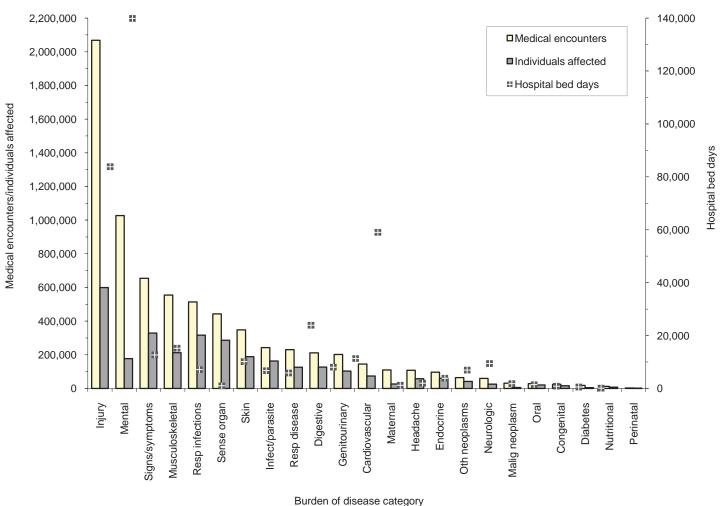
In 2008, mental disorders accounted for more than one-third (33.9%) of all hospital bed-days, while injuries accounted for more than one-fourth of all medical encounters overall (28.7%) (Figure 1). Together, injuries and mental disorders accounted for more than one-half (54.1%) of all hospital bed days and 43% of all medical encounters (Figure 1).

"Maternal" conditions (including pregnancy and childbirth) accounted for only 1.5% of all medical encounters but approximately one-seventh (14.3%) of all hospital beddays (Figure 1).

Medical encounters, by condition:

As in the past, in 2008, four conditions accounted for nearly one-fourth – and 11 conditions accounted for more than one-half – of all illness and injury-related medical encounters (Figure 2). Specific conditions that accounted for the most medical encounters were injuries – of the back and abdomen, knee, arm and shoulder, and foot and ankle;

Figure 1. Medical encounters, individuals affected and hospital bed days, by burden of disease category, active component, U.S. Armed Forces, 2008



upper respiratory infections; substance abuse disorders; and disorders of refraction and accommodation (Table 1, Figure 2).

Individuals affected, by condition:

As in the past, in 2008, more service members received medical care for upper respiratory infections than any other condition (Table 1). Of the 16 conditions that affected the most service members, seven were injuries — of the back and abdomen, foot and ankle, knee, "unspecified," arm and shoulder, head and neck, and hand and wrist (Table 1).

Hospital bed-days, by condition:

In 2008, mood disorders, substance abuse, and adjustment disorders accounted for more than one-fourth of all hospital days (Table 1, Figure 3). Eight conditions – four mental disorders (mood, substance abuse, adjustment, anxiety disorders); two associated with pregnancy and childbirth (delivery, pregnancy

complications); injuries of the head and neck; and "all other digestive diseases" – accounted for more than one-half (51.1%) of all hospital bed-days (Table 1, Figure 3).

Relationships between health care burden indicators:

There was a strong correlation between the number of medical encounters attributable to various conditions and the number of individuals affected by the conditions (r=0.94). For example, the eight conditions that affected the most individuals were all among the top ten causes of medical encounters (Table 1). There were not strong relationships between hospital bed-days attributable to conditions and either individuals affected by (r=0.30) or medical encounters attributable to (r=0.46) the same conditions. For example, childbirth and substance abuse disorders were among the top three sources of hospital bed-days but affected relatively few individuals. On the other hand, upper respiratory infections affected more individuals than any other condition and were

Table 1. Health care burdens attributable to various diseases and injuries, U.S. Armed Forces, 2008

Category*	Medic		Individ		Hosp	
	encoun No.	ters ¹ Rank	affect No.	ed⁺ Rank	bed d	•
Injury & poisoning	.10.	···	.10.	. with	.10.	. with
Back & abdomen	455,841	(1)	164,058	(5)	13,675	(9)
Knee	348,501	(5)	123,357	(8)	3,532	` '
Arm & shoulder	308,118		107,747		6,403	. ,
			-			. ,
Foot & ankle	299,502	. ,	136,495	(7)	6,089	. ,
Unspecified injury	197,547	` '	120,892	(9)	4,285	` ′
Head & neck	168,895	. ,	83,393	` ′	17,289	(5)
Hand & wrist	120,226	(20)	65,959	(16)	2,814	(32)
Leg	97,870	(24)	40,969	(28)	9,974	(12)
Environmental	25,605	(49)	20,423	(44)	1,066	(51)
Other complications NOS	21,227	(53)	12,817	(56)	11,822	(10)
Other injury from external causes	9,481	(70)	7,149	(64)	320	(78)
All other injury	9,102	(71)	6,035	(68)	1,969	(37)
Poisoning, drugs	3,398	(86)	2,506	(77)	4,122	(27)
Poisoning, nondrug	3,214	(88)	2,475	(78)	463	(71)
Mental disorders	-,	()	_,	(/		(/
Substance abuse disorders	258,433	(8)	32,199	(33)	37,993	(3)
Anxiety	221,284		45,072	` '	13,760	(8)
Mood	200,939		48,003	, ,	50,246	(1)
		. ,		` '	,	. ,
Adjustment	188,539	` '	60,017	` '	20,501	(4)
All other mental disorders	101,323		43,801	` '	6,389	, ,
Tobacco dependence	31,497	` '	20,247	` '		(103)
Psychotic	11,179	(66)	1,372	(88)	9,031	(13)
Personality	9,551	(69)	3,735	(74)	1,405	(42)
Somatoform	3,788	(84)	1,424	(85)	489	(66)
Signs & symptoms						
All other signs & symptoms	450,015	(2)	251,304	(2)	6,329	(17)
Respiratory & chest	119,175	(21)	75,326	(14)	4,256	(26)
Abdomen & pelvis	84,850	(26)	53,022	(20)	2,113	(35)
Musculoskeletal diseases						
All other musculoskeletal	388,260	(4)	164,672	(4)	8,622	(14)
Other back problems	121,594		48,794	. ,	4,467	` ′
Other knee disorders	18,843	` '	9,093	` '	1,097	, ,
Osteoarthritis	12,012		7,245			(58)
Other shoulder disorders	10,918	` '	6,510	` '		(87)
Rheumatoid arthritis	2,894	(90)	943	(94)	41	(108)
Respiratory infections					I	
Upper respiratory infections	414,252		273,871	(1)	1,777	(40)
Lower respiratory infections	68,694	(30)	43,381	(26)	5,272	(22)
Otitis media	31,291	(47)	24,804	(39)	64	(104)
Sense organ diseases						
Refraction/accommodation	230,748	(10)	179,813	(3)	1	(126)
All other sense organ diseases	152,830	(16)	100,534	(11)	972	(54)
Hearing disorders	44,600	(37)	28,885	(36)	44	(107)
Glaucoma	13,510	. ,	8,400	. ,		(131)
Cataracts	1,383			(98)		(124)
	1,000	(100)	003	(30)	,	(124)
Skin diseases	240 245	(0)	127 122	(0)	10.074	(44)
All other skin diseases	248,315		137,120		10,074	
Contact dermatitis	50,705	` '	38,651	` '		(106)
Sebaceous gland diseases	48,924	(34)	29,814	(35)	40	(109)

^{*}Categories defined in the Global Burden of Disease Study
†Medical encounters: total hospitalizations and ambulatory visits for the condition
‡Individuals affected: individuals with at least one hospitalization or ambulatory visit for the condition

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Table 1 continued. Health care burdens attributable to various diseases and injuries, U.S. Armed Forces, 2008

Category*	Medical encounters†	Individuals affected [‡]	Hospital bed days	Category*	Medical encounters†	Individuals affected [‡]	Hospital bed days
	No. Rank	No. Rank	No. Rank		No. Rank	No. Rank	No. Rank
Endocrine disorders				Mouth & oropharynx cancers	1,095 (109)	170 (113)	154 (93)
All other endocrine disorders	41,882 (39)	20,970 (43)	1,804 (39)	Trachea, bronchus, lung cancers	508 (112)	66 (118)	141 (95)
Lipoid metabolism disorders	35,948 (42)	27,069 (38)	16 (117)	Stomach cancer	373 (115)	34 (124)	313 (81)
Obesity	19,176 (55)	15,137 (53)	183 (90)	Ovary cancer	216 (118)	54 (120)	102 (99)
Neurologic conditions				Bladder cancer	204 (119)	63 (119)	33 (113)
All other neurologic conditions	42,690 (38)	19,871 (46)	5,533 (21)	Cervix uteri cancer	188 (121)	38 (123)	38 (110)
Other mononeuritis - limbs	8,923 (72)	4,656 (72)	182 (91)	Liver cancer	122 (123)	22 (126)	127 (96)
Epilepsy	5,684 (77)	1,998 (80)	983 (52)	Pancreas cancer	98 (125)	22 (127)	118 (97)
Multiple sclerosis	2,500 (95)	558 (102)	245 (83)	Esophagus cancer	61 (127)	16 (129)	32 (114)
Parkinson disease	117 (124)	42 (122)	8 (122)	Corpus uteri cancer	46 (129)	14 (130)	11 (120)
Alzheimer & other dementias	1 (131)	1 (131)	0 (129)	Oral conditions			
Other neoplasms				All other oral conditions	25,017 (50)	19,119 (48)	1,825 (38)
All other neoplasms	34,940 (43)	23,913 (41)	2,273 (33)	Periodontal disease	2,737 (94)	1,570 (84)	0 (130)
Benign skin neoplasm	17,086 (61)	13,616 (55)	8 (123)	Dental caries	1,096 (108)	963 (93)	19 (116)
Lipoma	8,719 (73)	5,565 (70)	75 (102)	Diabetes mellitus			
Uterine leiomyoma	3,740 (85)	1,826 (82)	1,509 (41)	Diabetes mellitus	17,652 (59)	5,072 (71)	895 (57)
Malignant neoplasms				Nutritional deficiencies			
Lymphoma & multiple myeloma	5,026 (78)	649 (100)	1,327 (45)	All other nutritional deficiencies	9,662 (68)	6,289 (67)	403 (75)
All other malignant neoplasms	4,684 (79)	907 (95)	2,901 (31)	Iron-deficiency anemia	3,025 (89)	1,673 (83)	142 (94)
Melanoma & other skin cancers	4,245 (81)	2,098 (79)	440 (72)	Protein-energy malnutrition	71 (126)	46 (121)	37 (112)
Testicular cancer	3,271 (87)	640 (101)	314 (80)	Congenital anomalies			
Breast cancer	2,740 (93)	358 (106)	201 (88)	All other congenital anomalies	22,163 (52)	14,620 (54)	981 (53)
Colon & rectum cancers	2,248 (96)	245 (108)	487 (67)	Congenital heart disease	2,132 (97)	1,110 (91)	463 (70)
Leukemia	2,054 (98)	169 (114)	1,304 (46)	Conditions arising during the pe	erinatal period	3	
Thyroid	1,807 (101)	457 (103)	407 (74)	All other perinatal anomalies	1,842 (99)	1,208 (90)	37 (111)
Brain	1,332 (105)	172 (112)	649 (62)	Low birth weight	396 (114)	202 (110)	3 (125)
Prostate cancer	1,256 (107)	304 (107)	324 (77)	Birth asphyxia & birth trauma	159 (122)	105 (116)	92 (100)

^{*}Categories defined in the Global Burden of Disease Study

a leading source of medical encounters overall; however, they accounted for relatively few hospital bed-days (Table 1).

Injuries of the back/abdomen was the only condition among the top 10 in relation to all burden measures (Table 1).

Editorial comment:

Illnesses and injuries are "burdens" to the U.S. Armed Forces to the extent that they degrade the health, fitness, morale, sense of well-being, and military operational effectiveness of service members. They also "burden" the U.S. Military Health System because they consume scarce health care resources for diagnosis, treatment, rehabilitation, and disability compensation. Decisions regarding prevention priorities, practices, research activities, and resources should consider the morbidity and health care burdens that are currently attributable to various illnesses, injuries, and associated risk factors.

Not surprisingly, the ranks of conditions in relation to their attributable "morbidity burdens" sharply vary based on the morbidity burden measure. However, remarkably few conditions — in particular, back injuries, pregnancy-related conditions, and mental (including substance abuse) disorders — account for large proportions of morbidity burden, regardless of the metric. As in the past, in 2008, 11 (of 131) conditions accounted for more than one-half of all medical encounters, while just eight conditions accounted for more than one-half of all hospital bed-days.

Throughout military history, injuries, mental disorders (particularly related to combat), and substance abuse disorders have been leading causes of morbidity and lost duty time among service members.³⁻⁶ In 2008, 14 conditions were among the top 25 in reference to all three burden measures. Of these, five were injuries – to the back and abdomen, arm and shoulder, foot and ankle, "unspecified," and head and neck; and four were mental disorders (mood, anxiety, adjustment,

[†]Medical encounters: total hospitalizations and ambulatory visits for the condition

 $[\]ddagger$ Individuals affected: individuals with at least one hospitalization or ambulatory visit for the condition

[§]Conditions affecting newborns erroneously coded on service member medical records

Figure 2. Percent and cumulative % distributions, burden categories that accounted for the most medical encounters among U.S. service members, 2008

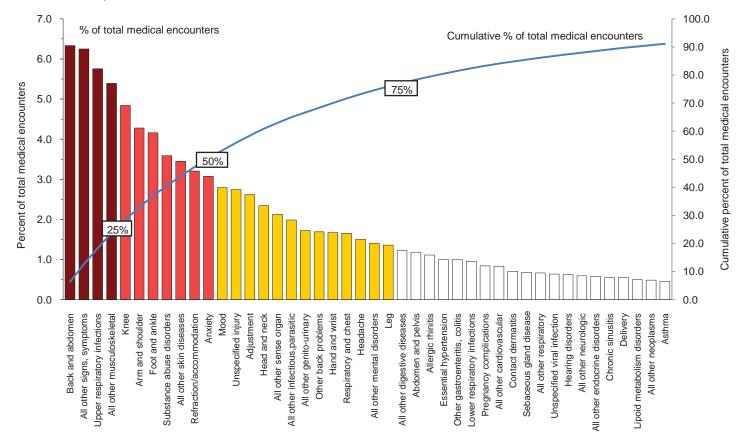
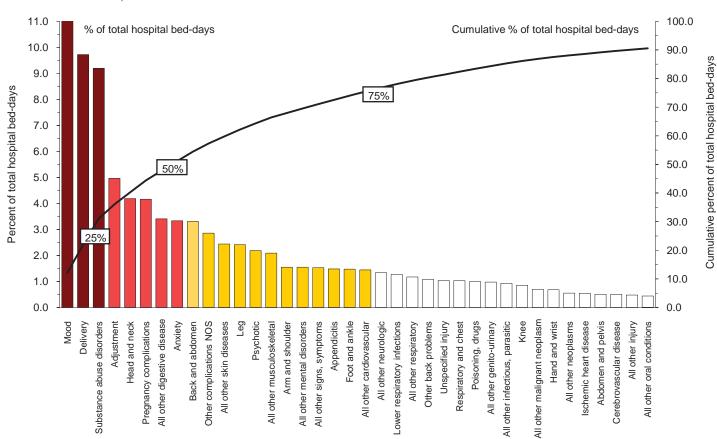


Figure 3. Percent and cumulative % distributions, burden categories that accounted for the most hospital bed-days, U.S. service members, 2008



and "all other" disorders) (Table 1). As noted many times in the past, the prevention of injuries of all types – but, particularly, back injuries – and the detection, characterization, and management of mental disorders – including substance abuse and deployment stress-related disorders, e.g., PTSD – should be clear focuses of military public health and force health protection programs.

In summary, this analysis, like those of recent years, documents that a relatively few illnesses and injuries account for most of the total health care burden that affects U.S. service members. Illnesses and injuries that account for disproportionately large health care burdens (regardless of the metric used to measure it) should be targeted to determine their susceptibilities to primary, secondary, and tertiary prevention efforts and given high priorities for prevention resources.

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Reportable medical events, active and reserve components, U.S. Armed Forces, 2008

In the U.S. Armed Forces, medical events of public health and/or military medical importance are reported through service-specific electronic reporting programs: the Army Reportable Medical Events System (RMES), the Air Force Reportable Event Surveillance System (AFRESS), and the Navy Reportable Disease System (NDRS). Army, Air Force, and Navy preventive medicine/public health activities at military installations worldwide collect and electronically transmit reports of notifiable events to their respective service surveillance centers. From these centers, reports are forwarded to the Armed Forces Health Surveillance Center (AFHSC). At the AFHSC, the data are integrated with personnel and other medical event data in the Defense Medical Surveillance System (DMSS).

Since 1998, 70 medical conditions¹ have been designated as "reportable" by the Department of Defense. The Army began electronic reporting of notifiable events in 1994 and in 2000, the medical surveillance centers of the Navy and Air Force began forwarding their reportable medical event case reports centrally for integration in the DMSS. The integration of data from all of the services enables summaries and analyses across the entire U.S. Armed Forces. This report summarizes frequencies, rates, and trends of notifiable medical events among both active and reserve component members, as reported from U.S. military medical treatment facilities, during calendar year 2008.

During 2008, there were 20,077 reports of notifiable medical events among members of the U.S. Armed Forces. During the year, there were an average of 31.0, 13.5 and 10.4 case reports per day from Army, Air Force, and Navy medical treatment facilities, respectively. In 2008 compared to 2007, there were more than twice as many notifiable medical event case reports from Navy installations, 24% more from Air Force installations, and 14% more from Army installations (Tables 1-4). The higher numbers of case reports in 2008 in general may reflect increasing awareness of and compliance with reporting requirements, broader access to diagnostic capabilities for some conditions, increasing numbers of service members who receive care in the Military Health System, and in some cases, actual increases in case incidence. Increases of reports of specific conditions in 2008 must be interpreted with consideration of the large increases of reports overall.

Sexually-transmitted infections:

In 2008, as in recent prior years, sexually-transmitted infections (due to chlamydia, gonorrhea, syphilis, and nongonococcal urethritis) accounted for most (n=17,535; 87.4%) of the notifiable event reports overall; sexually-transmitted infections due to *Chlamydia trachomatis*

remained the most frequently reported specific notifiable condition (n=14,972; 74.6% of all reports) (Tables 1-4). There were more reports of sexually transmitted infections in 2008 than in previous years; however, there was not a clear trend. For example, compared to the respective means of annual reports during the previous three years, in 2008, there were approximately 10% fewer reports of non-gonococcal urethritis but 93% more of syphilis (Tables 1-4).

Environmental:

In 2008, military medical facilities reported 597 heat- and 55 cold-related injuries among active and reserve component members. During the year, there were fewer reports of both heat and cold injuries than in any of the four prior years (Tables 1-4). However, the decrease in heat injury-related reports overall resulted from sharply fewer heat exhaustion reports; there were similar numbers of heat stroke reports in 2008 as in recent years (Figure 1).

Vaccine preventable illnesses

Among military members in 2008, there were no reported cases of anthrax, diphtheria, measles, polio, tetanus, or rubella. In 2008 compared to recent prior years, there were similar numbers of reported cases of hepatitis A (n=4), pertussis (n=15) and mumps (n=4) among U.S. service members overall. However, more cases of hepatitis B were reported from Navy (n=33) medical facilities in 2008 than in any of the previous four years (Tables 3-4). Of note, the number of influenza cases reported in 2008 (n=1,055) was more than three-times the mean annual number of reports from 2005-2007 (Figure 1). In 2008, 40% of all case reports of influenza among U.S. service members were submitted from Air Force medical facilities (Tables 1,3).

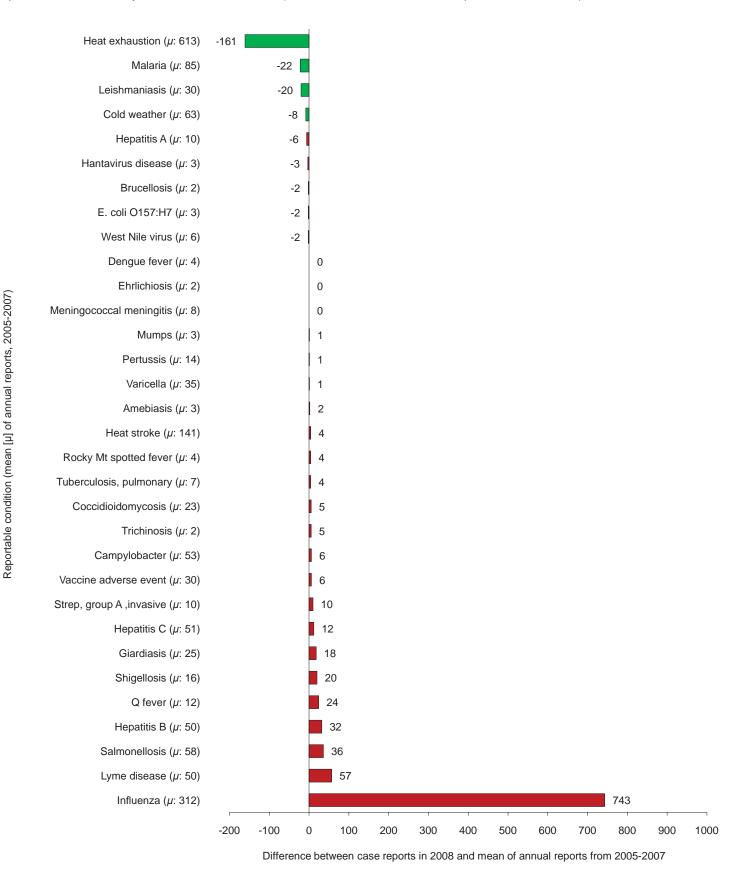
Arthropod-transmitted diseases:

In general, in 2008 compared to recent prior years, there were similar numbers of reports of arthropod-transmitted infectious diseases among U.S. service members. However, in 2008, there was a sharp increase in reported cases of Lyme disease among service members overall (n=107). Of note, Lyme disease case reports increased from 2007 to 2008 at Navy and Air Force, but not Army, facilities (Tables 1, 3-4, Figure 1).

Food/water-transmitted infections:

In 2008, the most frequently reported food/water transmitted infectious diseases among service members were

Figure 1. Numbers of notifiable medical events* among active and reserve component members of the U.S. Armed Forces, as reported from U.S. military medical facilities, in 2008† (relative to the means of annual reports from 2005-2007)±



^{*} Sexually transmitted diseases are excluded

[†] Events reported by April 7, 2009

[±] For diseases with three-year totals of at least six cases

Table 1. Notifiable medical events* among active and reserve component members, U.S. Armed Forces, as reported from U.S. military medical treatment facilities, 2004-2008

Diagnosis†	2004	2005	2006	2007	2008	Diagnosis†	2004	2005	2006	2007	2008
All reportable events	16,020	14,178	13,289	15,630	20,077	Listeriosis	0	0	0	0	0
Amebiasis	1	6	2	1	5	Lyme disease	30	40	36	74	107
Anthrax	0	0	0	0	0	Malaria, falciparum	42	7	7	3	16
Biological warfare agent exposure	1	0	0	1	0	Malaria, malariae	0	0	3	0	0
Botulism	0	0	0	0	0	Malaria, ovale	1	0	3	1	1
Brucellosis	1	2	2	3	0	Malaria, unspecified	21	30	52	29	23
Campylobacter	72	64	54	41	59	Malaria, vivax	29	38	48	33	23
Carbon monoxide poisoning	0	1	3	1	8	Measles	0	1	0	0	0
Chemical agent exposure	0	0	0	1	6	Meningococcal meningitis	3	10	6	8	8
Chlamydia	11,360	9,777	9,634	11,799	14,972	Meningococcal septicemia	0	0	0	0	2
Cholera	0	0	2	0	0	Mumps	0	2	4	2	4
Coccidioidomycosis	4	17	34	17	28	Pertussis	53	18	14	10	15
Cold weather, frostbite	97	46	38	39	41	Plague	0	0	0	0	0
Cold weather, hypothermia	1	2	5	13	5	Poliomyelitis	0	0	0	0	0
Cold weather, immersion type	6	2	4	2	4	Q fever	1	4	6	25	36
Cold weather, unspecified	13	17	10	10	5	Rabies, human	0	1	0	0	0
Cryptosporidiosis	1	2	0	2	7	Relapsing fever	0	1	0	0	1
Cyclospora	1	1	0	0	0	Rheumatic fever, acute	1	0	1	1	1
Dengue fever	5	4	4	4	4	Rift Valley fever	0	0	0	0	0
Diphtheria	0	0	0	0	0	Rocky Mountain spotted fever	9	3	2	6	8
E. coli O157:H7	3	3	2	5	1	Rubella	0	0	0	0	0
Ehrlichiosis	0	2	2	3	2	Salmonellosis	54	55	59	61	94
Encephalitis	3	1	0	1	0	Schistosomiasis	0	0	1	0	1
Filariasis	1	0	0	0	0	Shigellosis	20	20	6	21	36
Giardiasis	37	35	16	23	43	Smallpox	0	1	0	0	0
Gonorrhea	1,977	1,821	1,818	1,872	2,126	Streptococcus, group A, invasive	6	6	10	13	20
H. influenzae, invasive	0	0	2	2	14	Syphilis, congenital	10	1	1	1	3
Hantavirus disease	0	6	2	0	0	Syphilis, latent	27	30	26	41	59
Heat exhaustion	542	727	566	547	452	Syphilis, primary/secondary	78	49	51	63	107
Heat stroke	196	163	128	133	145	Syphilis, tertiary	1	1	2	3	5
Hemorrhagic fever	0	0	0	0	0	Tetanus	0	0	0	0	0
Hepatitis A	13	13	9	8	4	Toxic shock syndrome	1	1	0	0	1
Hepatitis B	63	65	39	45	82	Trichinosis	3	2	0	5	7
Hepatitis C	52	53	36	65	63	Trypanosomiasis	0	0	0	0	1
Influenza	176	497	191	248	1055	Tuberculosis, pulmonary	11	8	6	7	11
Lead poisoning	0	0	0	0	0	Tularemia	0	0	0	0	1
Legionellosis	1	0	0	2	1	Typhoid fever	0	0	1	1	0
Leishmaniasis, cutaneous	255	41	20	20	9	Typhus fever	0	0	0	0	0
Leishmaniasis, mucocutaneous	0	0	0	0	0	Urethritis, non-gonococcal	667	418	253	216	263
Leishmaniasis, unspecified	2	2	3	2	1	Vaccine adverse event	29	32	19	40	36
Leishmaniasis, visceral	2	1	1	0	0	Varicella	33	25	35	45	36
Leprosy	1	0	0	1	2	West Nile virus	1	1	9	9	4
Leptospirosis	2	2	1	1	3	Yellow fever	0	0	0	0	0

^{*}Events reported by April 7, 2009 †Tri-Service Reportable Events, Guidelines and Case Definitions, May 2004

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Table 2. Notifiable medical events* among active and reserve component members, U.S. Armed Forces, as reported from U.S. Army medical treatment facilities, 2004-2008

Amebiasis 1 2 1 0 0 Anthrax 0 0 0 0 Biological warfare agent exposure 1 0 0 0 Brucellosis 1 2 1 2 Campylobacter 41 50 47 32 37 Carbon monoxide poisoning 0	Diagnosis†	2004	2005	2006	2007	2008
Anthrax 0 0 0 0 Biological warfare agent exposure 1 0 0 1 0 Botulism 0 0 0 0 0 0 Brucellosis 1 2 1 2 0 0 Campylobacter 41 50 47 32 37 Carbon monoxide poisoning 0 0 2 0 0 Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholamydia 6 3 <	All reportable events	9,544	9,772	9,921	9,957	11,335
Biological warfare agent exposure 1 0 0 1 0 Botulism 0	Amebiasis	1	2	1	0	1
Botulism 0 0 0 0 Brucellosis 1 2 1 2 0 Campylobacter 41 50 47 32 37 Carbon monoxide poisoning 0 0 2 0 0 Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Choley 0 1 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, unspecified 12 16 10 1 4 Cryptosporidiosis 1 2 0 0 0 0 Cyclospora 1 1 0 0 0 0 0 0 0 0	Anthrax	0	0	0	0	0
Brucellosis 1 2 1 2 0 Campylobacter 41 50 47 32 37 Carbon monoxide poisoning 0 0 2 0 0 Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Cholera 0 0 1 4 4 Chole weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 1 4 Cyclospora 1 1 0 0 0 0 Cyclospora 1 1 0 0 0 0 Endile fever	Biological warfare agent exposure	1	0	0	1	0
Campylobacter 41 50 47 32 37 Carbon monoxide poisoning 0 0 2 0 0 Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Cocidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, pypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 1 4 Cryptosporidiosis 1 2 0 0 0 0 0 Cyclospora 1 1 0 0 0 0 0 0 0 Englisheria 0 0 0<	Botulism	0	0	0	0	0
Carbon monoxide poisoning 0 0 2 0 0 Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Cocidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 0 0 Cyclospora 1 1 0 <t< td=""><td>Brucellosis</td><td>1</td><td>2</td><td>1</td><td>2</td><td>0</td></t<>	Brucellosis	1	2	1	2	0
Chemical agent exposure 0 0 0 1 3 Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Coccidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 </td <td>Campylobacter</td> <td>41</td> <td>50</td> <td>47</td> <td>32</td> <td>37</td>	Campylobacter	41	50	47	32	37
Chlamydia 6,138 6,337 6,954 7,084 8,192 Cholera 0 0 1 0 0 Coccidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cold weather, unspecified 12 16 10 10 4 Cold weather, unspecified 12 16 10 10 4 Cold weather, immersion type 6 2 4 2 2 2 Cold weather, immersion type 6 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Carbon monoxide poisoning	0	0	2	0	0
Cholera 0 1 0 0 Coccidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cold weather, unspecified 12 16 10 10 4 Cryclospora 1 2 0 0 5 Cyclospora 1 1 0 0 0 0 Dengue fever 1 2 2 3 0	Chemical agent exposure	0	0	0	1	3
Coccidioidomycosis 3 6 4 4 4 Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 0 Dengue fever 1 2 2 3 0 0 Diphtheria 0	Chlamydia	6,138	6,337	6,954	7,084	8,192
Cold weather, frostbite 96 38 33 38 30 Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 0 Dengue fever 1 2 2 3 0 <td< td=""><td>Cholera</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td></td<>	Cholera	0	0	1	0	0
Cold weather, hypothermia 0 1 4 10 1 Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 0 Dengue fever 1 2 2 3 0	Coccidioidomycosis	3	6	4	4	4
Cold weather, immersion type 6 2 4 2 2 Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 Dengue fever 1 2 2 3 0 Diphtheria 0 0 0 0 0 0 E. coli O157:H7 1 2 2 2 0	Cold weather, frostbite	96	38	33	38	30
Cold weather, unspecified 12 16 10 10 4 Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 Dengue fever 1 2 2 3 0 Diphtheria 0 0 0 0 0 0 0 E. coli O157:H7 1 2 2 2 2 0 <t< td=""><td>Cold weather, hypothermia</td><td>0</td><td>1</td><td>4</td><td>10</td><td>1</td></t<>	Cold weather, hypothermia	0	1	4	10	1
Cryptosporidiosis 1 2 0 0 5 Cyclospora 1 1 0 0 0 Dengue fever 1 2 2 3 0 Diphtheria 0 0 0 0 0 E. coli O157:H7 1 2 2 2 0 Ehrlichiosis 0 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1 3 1 0	Cold weather, immersion type	6	2	4	2	2
Cyclospora 1 1 0 0 Dengue fever 1 2 2 3 0 Diphtheria 0 0 0 0 0 E. coli O157:H7 1 2 2 2 0 Ehrlichiosis 0 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 0 1 2 13 1 1 1 1 1 1 1 1 1 1 1 1 1	Cold weather, unspecified	12	16	10	10	4
Dengue fever 1 2 2 3 0 Diphtheria 0 0 0 0 0 E. coli O157:H7 1 2 2 2 0 Ehrlichiosis 0 2 1 2 1 Encephalitis 0 0 0 0 0 Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15<	Cryptosporidiosis	1	2	0	0	5
Diphtheria 0 0 0 0 E. coli O157:H7 1 2 2 2 0 Ehrlichiosis 0 2 1 2 1 Encephalitis 0 0 0 0 0 Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 <	Cyclospora	1	1	0	0	0
E. coli O157:H7 1 2 2 2 0 Ehrlichiosis 0 2 1 2 1 Encephalitis 0 0 0 0 0 Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153	Dengue fever	1	2	2	3	0
Ehrlichiosis 0 2 1 2 1 Encephalitis 0 0 0 0 0 Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 10 0 0	Diphtheria	0	0	0	0	0
Encephalitis 0 0 0 0 0 Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 0 Hepatitis A 8 11 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 23 1 1 1 1 1 1 1 1 1 1 1	E. coli O157:H7	1	2	2	2	0
Filariasis 1 0 0 0 0 Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 0 Hepatitis A 8 11 7 1 2 1 1 <td< td=""><td>Ehrlichiosis</td><td>0</td><td>2</td><td>1</td><td>2</td><td>1</td></td<>	Ehrlichiosis	0	2	1	2	1
Giardiasis 21 17 11 13 17 Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, unspecified 0 1 0 0 0 0	Encephalitis	0	0	0	0	0
Gonorrhea 1,398 1,501 1,454 1,396 1,470 H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, unspecified 0 1 2 2 0	Filariasis	1	0	0	0	0
H. influenzae, invasive 0 0 1 2 13 Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, unspecified 0 1 2 2 0	Giardiasis	21	17	11	13	17
Hantavirus disease 0 5 1 0 0 Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, unspecified 0 1 2 2 0	Gonorrhea	1,398	1,501	1,454	1,396	1,470
Heat exhaustion 385 536 482 438 227 Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 0 0 0 0 Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	H. influenzae, invasive	0	0	1	2	13
Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 1	Hantavirus disease	0	5	1	0	0
Heat stroke 187 157 121 127 118 Hemorrhagic fever 0 1	Heat exhaustion	385	536	482	438	227
Hepatitis A 8 11 7 1 1 Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Heat stroke	187			127	118
Hepatitis B 27 40 22 15 23 Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Hemorrhagic fever	0	0	0	0	0
Hepatitis C 30 41 29 38 23 Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Hepatitis A	8	11	7	1	1
Influenza 102 287 126 153 591 Lead poisoning 0 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Hepatitis B	27	40	22	15	23
Lead poisoning 0 0 0 0 0 Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Hepatitis C	30	41	29	38	23
Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Influenza	102	287	126	153	591
Legionellosis 1 0 0 2 1 Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	Lead poisoning	0	0	0	0	0
Leishmaniasis, cutaneous 250 38 20 19 5 Leishmaniasis, mucocutaneous 0 0 0 0 0 Leishmaniasis, unspecified 0 1 2 2 0	-	1	0	0	2	
Leishmaniasis, mucocutaneous00000Leishmaniasis, unspecified01220		250	38	20	19	5
Leishmaniasis, unspecified 0 1 2 2 0	·					
Leishmaniasis, visceral 2 0 1 0 0	Leishmaniasis, visceral	2	0	1	0	0
Leprosy 1 0 0 1 2	·					
Leptospirosis 1 2 1 1 3						

Diagnosis†	2004	2005	2006	2007	2008
Listeriosis	0	0	0	0	0
Lyme disease	21	27	29	51	49
Malaria, falciparum	8	4	4	2	8
Malaria, malariae	0	0	3	0	0
Malaria, ovale	1	0	1	0	1
Malaria, unspecified	16	28	51	28	15
Malaria, vivax	26	36	45	32	19
Measles	0	1	0	0	0
Meningococcal meningitis	1	5	5	7	2
Meningococcal septicemia	0	0	0	0	0
Mumps	0	2	3	0	0
Pertussis	36	12	9	5	1
Plague	0	0	0	0	0
Poliomyelitis	0	0	0	0	0
Q fever	1	3	4	22	30
Rabies, human	0	0	0	0	0
Relapsing fever	0	1	0	0	0
Rheumatic fever, acute	0	0	1	0	0
Rift Valley fever	0	0	0	0	0
Rocky Mountain spotted fever	7	2	1	1	5
Rubella	0	0	0	0	0
Salmonellosis	33	29	42	36	36
Schistosomiasis	0	0	1	0	0
Shigellosis	17	15	4	16	22
Smallpox	0	0	0	0	0
Streptococcus, group A, invasive	3	4	10	10	11
Syphilis, congenital	0	0	0	0	0
Syphilis, latent	14	24	23	29	37
Syphilis, primary/secondary	42	34	37	35	62
Syphilis, tertiary	0	1	2	3	5
Tetanus	0	0	0	0	0
Toxic shock syndrome	1	1	0	0	0
Trichinosis	1	1	0	5	1
Trypanosomiasis	0	0	0	0	0
Tuberculosis, pulmonary	5	3	4	7	9
Tularemia	0	0	0	0	0
Typhoid fever	0	0	1	1	0
Typhus fever	0	0	0	0	0
Urethritis, non-gonococcal	538	396	250	213	210
Vaccine adverse event	29	29	10	22	19
Varicella	26	15	28	26	18
West Nile virus	1	0	9	7	1
Yellow fever	0	0	0	0	0

^{*}Events reported by April 7, 2009 †Tri-Service Reportable Events, Guidelines and Case Definitions, May 2004

Table 3. Notifiable medical events* among active and reserve component members, U.S. Armed Forces, as reported from U.S. Air Force medical treatment facilities, 2004-2008

Diagnosis [†]	2004	2005	2006	2007	2008
All reportable events	4,694	2,971	1,992	3,958	4,924
Amebiasis	0	2	1	1	4
Anthrax	0	0	0	0	0
Biological warfare agent exposure	0	0	0	0	0
Botulism	0	0	0	0	0
Brucellosis	0	0	0	0	0
Campylobacter	28	11	1	7	17
Carbon monoxide poisoning	0	1	1	1	7
Chemical agent exposure	0	0	0	0	3
Chlamydia	4,081	2,485	1,707	3,397	3,897
Cholera	0	0	1	0	0
Coccidioidomycosis	0	2	4	9	6
Cold weather, frostbite	1	8	5	1	11
Cold weather, hypothermia	0	0	0	3	3
Cold weather, immersion type	0	0	0	0	2
Cold weather, unspecified	1	1	0	0	1
Cryptosporidiosis	0	0	0	2	0
Cyclospora	0	0	0	0	0
Dengue fever	1	0	1	0	0
Diphtheria	0	0	0	0	0
E. coli O157:H7	2	1	0	2	1
Ehrlichiosis	0	0	1	1	0
Encephalitis	2	0	0	0	0
Filariasis	0	0	0	0	0
Giardiasis	8	15	3	6	20
Gonorrhea	354	164	157	276	291
H. influenzae, invasive	0	0	1	0	0
Hantavirus disease	0	0	1	0	0
Heat exhaustion	5	0	1	21	13
Heat stroke	2	0	0	1	2
Hemorrhagic fever	0	0	0	0	0
Hepatitis A	2	1	2	6	3
Hepatitis B	28	14	8	18	26
Hepatitis C	17	6	3	14	24
Influenza	73	192	55	87	420
Lead poisoning	0	0	0	0	0
Legionellosis	0	0	0	0	0
Leishmaniasis, cutaneous	2	3	0	1	3
Leishmaniasis, mucocutaneous	0	0	0	0	0
Leishmaniasis, unspecified	0	1	0	0	1
Leishmaniasis, visceral	0	0	0	0	0
Leprosy	0	0	0	0	0
Leptospirosis	0	0	0	0	0

Diagnosis [†]	2004	2005	2006	2007	2008
Listeriosis	0	0	0	0	0
Lyme disease	5	9	2	12	28
Malaria, falciparum	1	0	1	0	1
Malaria, malariae	0	0	0	0	0
Malaria, ovale	0	0	2	0	0
Malaria, unspecified	1	0	0	0	3
Malaria, vivax	3	1	3	1	2
Measles	0	0	0	0	0
Meningococcal meningitis	2	2	0	1	5
Meningococcal septicemia	0	0	0	0	1
Mumps	0	0	0	2	4
Pertussis	17	4	3	4	8
Plague	0	0	0	0	0
Poliomyelitis	0	0	0	0	0
Q fever	0	0	0	3	4
Rabies, human	0	0	0	0	0
Relapsing fever	0	0	0	0	0
Rheumatic fever, acute	1	0	0	1	0
Rift Valley fever	0	0	0	0	0
Rocky Mountain spotted fever	0	1	0	1	3
Rubella	0	0	0	0	0
Salmonellosis	16	11	5	19	37
Schistosomiasis	0	0	0	0	1
Shigellosis	2	5	1	4	6
Smallpox	0	1	0	0	0
Streptococcus, group A, invasive	1	2	0	2	7
Syphilis, congenital	3	1	0	1	3
Syphilis, latent	8	4	1	3	8
Syphilis, primary/secondary	19	6	7	17	13
Syphilis, tertiary	0	0	0	0	0
Tetanus	0	0	0	0	0
Toxic shock syndrome	0	0	0	0	1
Trichinosis	2	1	0	0	4
Trypanosomiasis	0	0	0	0	1
Tuberculosis, pulmonary	1	2	0	0	1
Tularemia	0	0	0	0	1
Typhoid fever	0	0	0	0	0
Typhus fever	0	0	0	0	0
Urethritis, non-gonococcal	2	1	0	3	3
Vaccine, adverse event	0	3	8	18	15
Varicella	3	9	6	10	7
West Nile virus	0	1	0	2	2
Yellow fever	0	0	0	0	0

^{*}Events reported by April 7, 2009

Table 4. Notifiable medical events* among active and reserve component members, U.S. Armed Forces, as reported from U.S. Navy medical treatment facilities, 2004-2008

Diagnosis [†]	2004	2005	2006	2007	2008
All reportable events	1,782	1,435	1,376	1,715	3,818
Amebiasis	0	2	0	0	0
Anthrax	0	0	0	0	0
Biological warfare agent exposure	0	0	0	0	0
Botulism	0	0	0	0	0
Brucellosis	0	0	1	1	0
Campylobacter	3	3	6	2	5
Carbon monoxide poisoning	0	0	0	0	1
Chemical agent exposure	0	0	0	0	0
Chlamydia	1,141	955	973	1,318	2,883
Cholera	0	0	0	0	0
Coccidioidomycosis	1	9	26	4	18
Cold weather, frostbite	0	0	0	0	0
Cold weather, hypothermia	1	1	1	0	1
Cold weather, immersion type	0	0	0	0	0
Cold weather, unspecified	0	0	0	0	0
Cryptosporidiosis	0	0	0	0	2
Cyclospora	0	0	0	0	0
Dengue fever	3	2	1	1	4
Diphtheria	0	0	0	0	0
E. coli O157:H7	0	0	0	1	0
Ehrlichiosis	0	0	0	0	1
Encephalitis	1	1	0	1	0
Filariasis	0	0	0	0	0
Giardiasis	8	3	2	4	6
Gonorrhea	225	156	207	200	365
H. influenzae, invasive	0	0	0	0	1
Hantavirus disease	0	1	0	0	0
Heat exhaustion	152	191	83	88	212
Heat stroke	7	6	7	5	25
Hemorrhagic fever	0	0	0	0	0
Hepatitis A	3	1	0	1	0
Hepatitis B	8	11	9	12	33
Hepatitis C	5	6	4	13	16
Influenza	1	18	10	8	44
Lead poisoning	0	0	0	0	0
Legionellosis	0	0	0	0	0
Leishmaniasis, cutaneous	3	0	0	0	1
Leishmaniasis, mucocutaneous	0	0	0	0	0
Leishmaniasis, unspecified	2	0	1	0	0
Leishmaniasis, visceral	0	1	0	0	0
Leprosy	0	0	0	0	0
Leptospirosis	1	0	0	0	0

Diagnosis [†]	2004	2005	2006	2007	2008
Listeriosis	0	0	0	0	0
Lyme disease	4	4	5	11	30
Malaria, falciparum	33	3	2	1	7
Malaria, malariae	0	0	0	0	0
Malaria, ovale	0	0	0	1	0
Malaria, unspecified	4	2	1	1	5
Malaria, vivax	0	1	0	0	2
Measles	0	0	0	0	0
Meningococcal meningitis	0	3	1	0	1
Meningococcal septicemia	0	0	0	0	1
Mumps	0	0	1	0	0
Pertussis	0	2	2	1	6
Plague	0	0	0	0	0
Poliomyelitis	0	0	0	0	0
Q fever	0	1	2	0	2
Rabies, human	0	1	0	0	0
Relapsing fever	0	0	0	0	1
Rheumatic fever, acute	0	0	0	0	1
Rift Valley fever	0	0	0	0	0
Rocky Mountain spotted fever	2	0	1	4	0
Rubella	0	0	0	0	0
Salmonellosis	5	15	12	6	21
Schistosomiasis	0	0	0	0	0
Shigellosis	1	0	1	1	8
Smallpox	0	0	0	0	0
Streptococcus, group A, invasive	2	0	0	1	2
Syphilis, congenital	7	0	1	0	0
Syphilis, latent	5	2	2	9	14
Syphilis, primary/secondary	17	9	7	11	32
Syphilis, tertiary	1	0	0	0	0
Tetanus	0	0	0	0	0
Toxic shock syndrome	0	0	0	0	0
Trichinosis	0	0	0	0	2
Trypanosomiasis	0	0	0	0	0
Tuberculosis, pulmonary	5	3	2	0	1
Tularemia	0	0	0	0	0
Typhoid fever	0	0	0	0	0
Typhus fever	0	0	0	0	0
Urethritis, non-gonococcal	127	21	3	0	50
Vaccine, adverse event	0	0	1	0	2
Varicella	4	1	1	9	11
West Nile virus	0	0	0	0	1
Yellow fever	0	0	0	0	0

^{*}Events reported by April 7, 2009

salmonellosis (n=94), campylobacter (n=59), giardiasis (n=43) and shigellosis (n=36). Over the past five years, numbers of reported cases of food/water-transmitted infectious diseases – overall and by specific causes – have been fairly stable (Tables 1-4). Of note, there continue to be very few reported cases of $E.\ coli\ O157:H7$, typhoid fever, amebiasis, and cholera (Tables 1-4).

Editorial comment:

Surveillance of reportable medical conditions provides military public health officials with unique, timely, and actionable information regarding ongoing and emerging threats to public health or military operational effectiveness. The integration of installation-specific reports at a central level enables the detection, characterization, and tracking of remote, widely disseminated, and/or spreading health threats. Consider, for example, that exposures to significant health threats while deployed may not be clinically expressed until affected service members have completed their deployment-related assignments (e.g., vivax malaria). By the time such diseases are clinically apparent, affected service members may be widely dispersed, in locations not endemic for the subject diseases, and far removed from the times and locations of the relevant exposures.

General summaries of reported medical conditions should be interpreted cautiously. For example, notifiable conditions are incompletely reported; and the completeness of reporting varies across Services, medical facilities, locations, settings, and conditions themselves. In addition, there are few or no reports of notifiable conditions among service members who are engaged in field training exercises or deployments — unless affected individuals receive care for the conditions at permanent military medical facilities or the cases are reported to military preventive medicine/public health officials at reporting sites. Thus, complete assessments of frequencies, rates, and trends of notifiable conditions require reviews of more than reported cases alone.

In regard to this report, there were nearly 30% more notifiable medical event reports overall in 2008 than 2007; of particular note, reports from Navy medical facilities more than doubled from 2007 to 2008. Increases in case reporting in general must be considered when interpreting recent sharp increases in case reports of specific conditions.

References:

1. Tri-Service consensus list of reportable medical events: Completeness and timeliness of reporting in the Army, January-June 1998. *MSMR*, 1998;4(8):2-11.

Update: Deployment Health Assessments, U.S. Armed Forces, April 2009

Since January 2003, peaks and troughs in the numbers of pre- and post-deployment health assessment forms transmitted to the Armed Forces Health Surveillance Center generally corresponded to times of departure and return of large numbers of deployers. Since April 2006, numbers of post-deployment health reassessments (PDHRA) transmitted per month have ranged from 17,000 to 36,000 (Table 1, Figure 1).

Proportions of deployers who rated their health as "fair" or "poor" on post-deployment health questionnaires generally increased from 7% in April 2008 to 11% in November 2008 and have since been stable at approximately 10%. On PDHRA questionnaires, the proportions who rated their health as "fair" or "poor" during the past 12 months ranged from 11 to 14% (Figure 2).

In general, on post-deployment assessments and reassessments, deployers in the Army and in reserve components were more likely than their respective counterparts to report health and exposure-related concerns (Table 2, Figure 2). Both active and reserve component members were more likely to report exposure concerns three to six months after compared to the time of return from deployment (Figure 3).

At the time of return from deployment, active soldiers were the most likely of all deployers to receive mental health referrals; however, three to six months after returning, active component soldiers were less likely than Army and Marine Corps Reservists to receive mental health referrals (Table 2).

Table 1. Deployment-related health assessment forms, by month, U.S. Armed Forces, April 2008-March 2009

	assessment DD2795		Post-dep assess DD2	ment	Post-deployment reassessment DD2900			
	No.	%	No.	%	No.	%		
Total	396,044	100	379,720	100	310,768	100		
2008								
April	34,884	8.8	33,363	8.8	34,182	11.0		
May	24,803	6.3	39,541	10.4	25,042	8.1		
June	28,104	7.1	34,351	9.0	21,147	6.8		
July	26,111	6.6	25,463	6.7	21,427	6.9		
August	33,784	8.5	22,727	6.0	30,077	9.7		
September	39,194	9.9	33,360	8.8	25,830	8.3		
October	38,499	9.7	37,961	10.0	26,251	8.4		
November	28,173	7.1	37,677	9.9	23,376	7.5		
December	35,890	9.1	39,732	10.5	21,359	6.9		
2009								
January	39,212	9.9	29,517	7.8	25,392	8.2		
February	32,256	8.1	24,220	6.4	27,270	8.8		
March	35,134	8.9	21,808	5.7	29,415	9.5		

Figure 2. Proportion of deployment health assessment forms with self-assessed health status as "fair" or "poor", U.S. Armed Forces, April 2008-March 2009

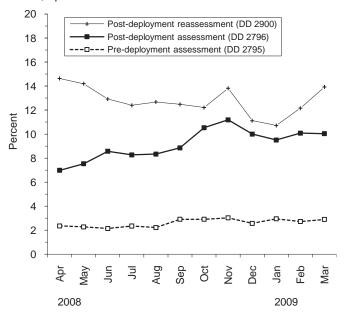


Figure 1. Total deployment health assessment and reassessment forms, by month, U.S. Armed Forces, January 2003-March 2009

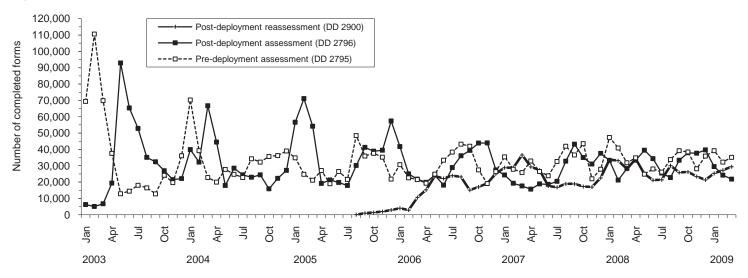
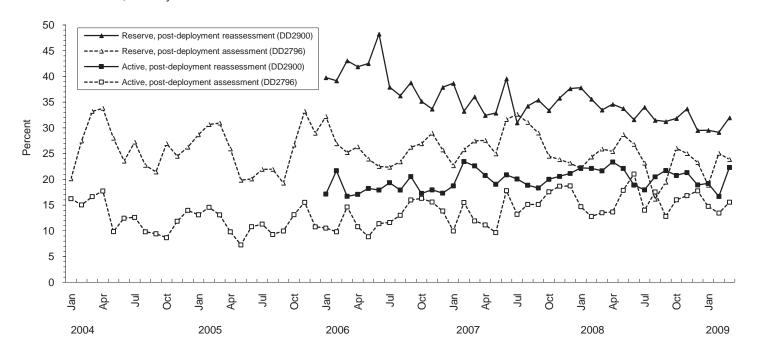


Table 2. Percentage of service members who endorsed selected questions/received referrals on health assessment forms, U.S. Armed Forces, April 2008-March 2009

		Army			Navy		Air Force			Marine Corps			All service members		
			Reassess DD2900		Post- deploy DD2796	Reassess DD2900		Post- deploy DD2796			Post- deploy DD2796		DD2795		Reassess DD2900
Active component	n= 147,539	n= 129,520	n= 114,103	n= 11,409	n= 15,670	n= 14,984	n= 57,646	n= 52,187	n= 51,203	n= 17,422	n= 32,975	n= 35,396	n= 234,016	n= 230,352	n= 215,686
Active component	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
General health "fair" or "poor"	4.1	10.9	15.8	1.4	4.7	6.2	0.5	3.7	4.4	1.6	6.1	9.1	2.9	8.2	11.4
Health concerns, not wound or injury	13.9	26.4	29.8	4.3	14.1	14.6	1.5	6.8	12.0	3.3	13.1	18.9	9.6	19.2	22.7
Health worse now than before deployed	na	4.3	27.9	na	0.1	13.9	na	0.9	9.3	na	0.1	18.4	na	2.6	20.9
Exposure concerns	na	18.4	23.8	na	15.3	15.7	na	10.8	15.5	na	11.1	18.5	na	15.4	20.4
PTSD symptoms (2 or more)	na	11.7	16.2	na	4.6	7.5	na	2.5	3.0	na	4.4	8.9	na	8.1	11.3
Depression symptoms (any)	na	5.8	36.9	na	0.1	25.4	na	1.0	15.3	na	0.3	31.5	na	3.6	30.1
Referral indicated by provider (any)	5.3	34.7	22.5	5.4	22.3	15.2	1.6	11.4	7.5	3.5	20.4	20.4	4.2	26.6	18.1
Mental health referral indicated*	1.2	8.6	6.6	0.6	3.9	5.8	0.5	1.2	2.1	0.3	2.4	4.5	0.9	5.7	5.2
Medical visit following referral†	97.3	98.0	97.1	90.9	77.7	90.8	76.6	95.5	96.8	68.4	69.9	73.7	92.1	92.3	92.1
		Army			Navy			Air Ford	e	Ma	arine Co	orps		rvice me	embers
	Pre- deploy DD2795	Post- deploy DD2796	Reassess DD2900	aepioy	Post- deploy DD2796	Reassess DD2900									
D	n= 73,579	n= 64,404	n= 62,578	n= 2,580	n= 3,513	n= 6,451	n= 16,431	n= 15,204	n= 16,600	n= 1,413	n= 3,198	n= 5,551	n= 94,003	n= 86,319	n= 91,180
Reserve component	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
General health "fair" or "poor"	2.1	11.0	19.4	0.5	8.5	9.2	0.3	5.0	4.8	1.0	8.8	9.5	1.7	9.8	15.4
Health concerns, not wound or injury	13.6	38.0	49.6	2.6	27.7	30.1	0.7	10.1	13.4	3.7	29.8	34.4	10.9	32.3	40.7
Health worse now than before deployed	na	9.5	37.4	na	0.3	23.1	na	1.1	10.4	na	0.2	25.3	na	7.3	30.7
Exposure concerns	na	25.6	35.5	na	32.4	27.3	na	17.4	20.7	na	20.1	28.1	na	24.3	31.8
PTSD symptoms (2 or more)	na	10.9	24.8	na	5.6	10.6	na	2.0	2.7	na	5.0	12.8	na	8.9	19.0
Depression symptoms (any)	na	9.4	39.9	na	0.2	26.4	na	0.8	14.0	na	0.3	32.0	na	7.2	33.7
Referral indicated by provider (any)	4.2	34.9	34.8	3.4	30.3	18.5	0.7	13.9	5.5	6.4	32.5	31.0	3.6	30.9	28.1
Mental health referral indicated*	0.5	4.9	13.0	0.3	3.3	4.8	0.0	0.6	0.9	0.4	3.0	9.7	0.4	4.0	10.0
Medical visit following referral†	96.3	97.5	29.1	85.4	91.6	42.2	40.9	64.2	38.5	77.4	55.1	22.2	92.4	90.8	29.4

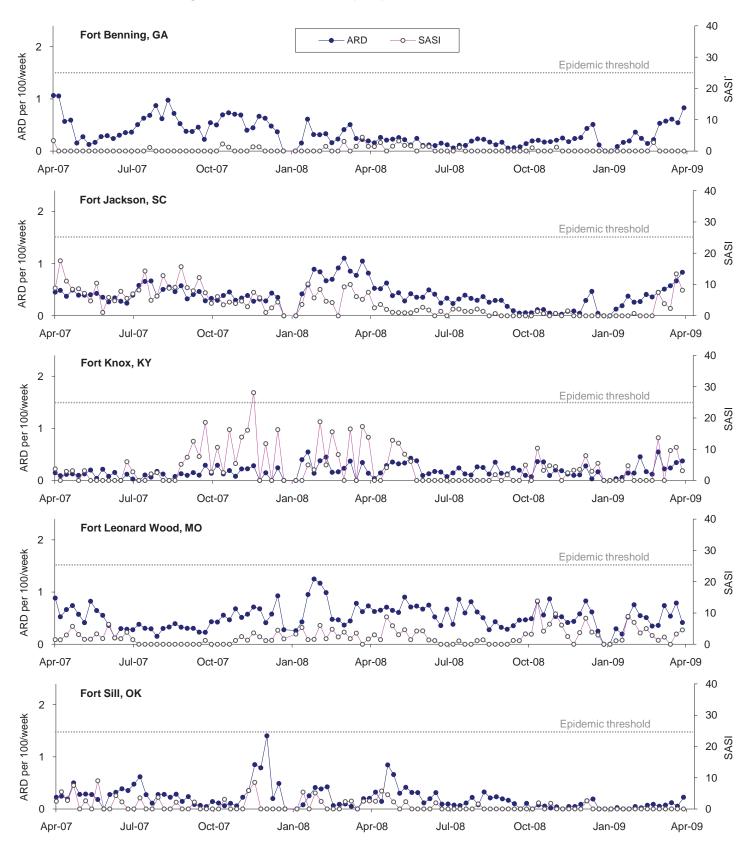
^{*}Includes behavioral health, combat stress and substance abuse referrals.

Figure 3. Proportion of service members who endorse exposure concerns on post-deployment health assessments, U.S. Armed Forces, January 2004-March 2009

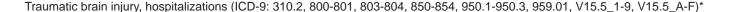


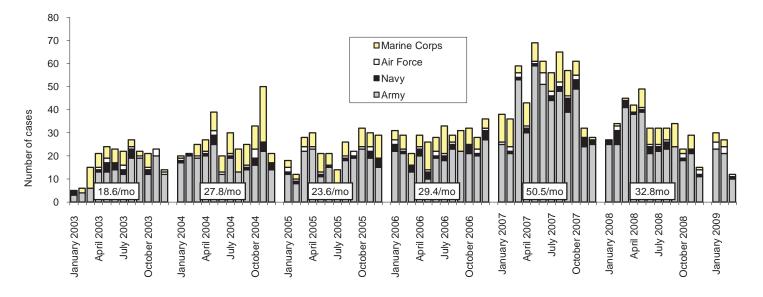
[†]Record of inpatient or outpatient visit within 6 months after referral

Acute respiratory disease (ARD) and streptococcal pharyngitis rates (SASI*), basic combat training centers, U.S. Army, by week, April 2007-April 2009

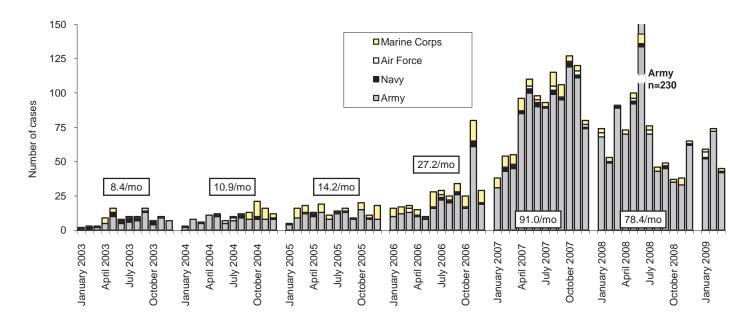


Deployment-related conditions of special surveillance interest, U.S. Armed Forces, by month and service, January 2003 - March 2009 (data as of 27 April 2009)





Traumatic brain injury, multiple ambulatory visits (without hospitalization), (ICD-9: 310.2, 800-801, 803-804, 850-854, 950.1-950.3, 959.01, V15.5_1-9, V15.5_A-F)[†]



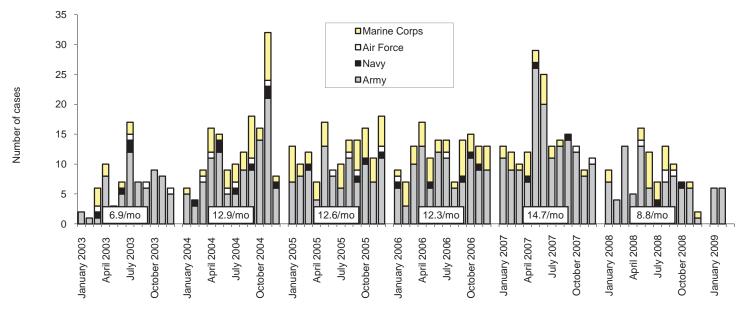
Reference: Armed Forces Health Surveillance Center. Frequencies, rates and trends of use of diagnostic codes indicative of traumatic brain injury (TBI), July 1999-June 2008. MSMR. Dec 2008; 15(10):2-9.

^{*}Indicator diagnosis (one per individual) during a hospitalization while deployed to/within 30 days of returning from OEF/OIF.

[†]Two or more ambulatory visits at least 7 days apart (one case per individual) while deployed to/within 30 days of returning from OEF/OIF.

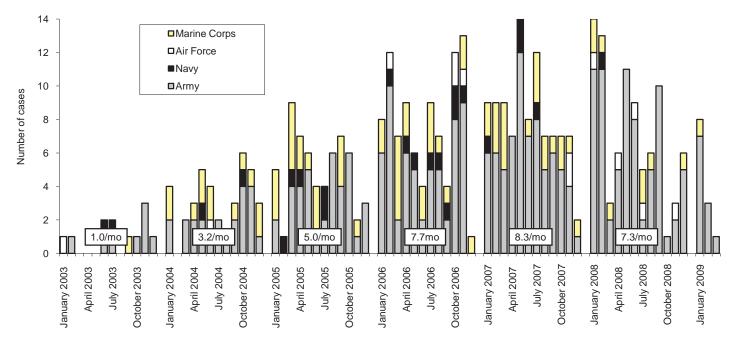
Deployment-related conditions of special surveillance interest, U.S. Armed Forces, by month and service, January 2003 - March 2009 (data as of 27 April 2009)

Amputations (ICD-9: 887, 896, 897, V49.6 except V49.61-V49.62, V49.7 except V49.71-V49.72, PR 84.0-PR 84.1, except PR 84.01-PR 84.02 and PR 84.11)*



Reference: Army Medical Surveillance Activity. Deployment-related condition of special surveillance interest: amputations. Amputations of lower and upper extremities, U.S. Armed Forces, 1990-2004. MSMR. Jan 2005;11(1):2-6.

Heterotopic ossification (ICD-9: 728.12, 728.13, 728.19)†

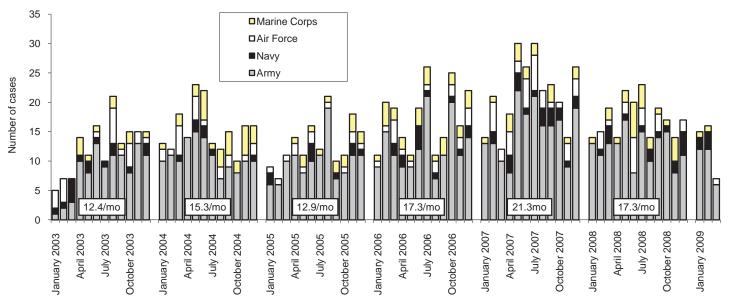


Reference: Army Medical Surveillance Activity. Heterotopic ossification, active components, U.S. Armed Forces, 2002-2007. MSMR. Aug 2007; 14(5):7-9. †One diagnosis during a hospitalization or two or more ambulatory visits at least 7 days apart (one case per individual) while deployed to/within 365 days of returning from OFF/OIF

^{*}Indicator diagnosis (one per individual) during a hospitalization while deployed to/within 365 days of returning from OEF/OIF.

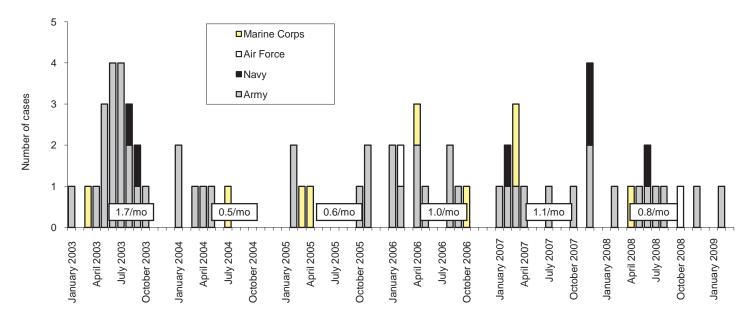
Deployment-related conditions of special surveillance interest, U.S. Armed Forces, by month and service, January 2003 - March 2009 (data as of 27 April 2009)

Deep vein thrombophlebitis/pulmonary embolus (ICD-9: 415.1, 451.1, 451.81, 451.83, 451.89, 453.2, 453.40 - 453.42 and 453.8)*



Reference: Isenbarger DW, Atwood JE, Scott PT, et al. Venous thromboembolism among United States soldiers deployed to Southwest Asia. *Thromb Res.* 2006;117(4):379-83.

Severe acute pneumonia (ICD-9: 518.81, 518.82, 480-487, 786.09)[†]

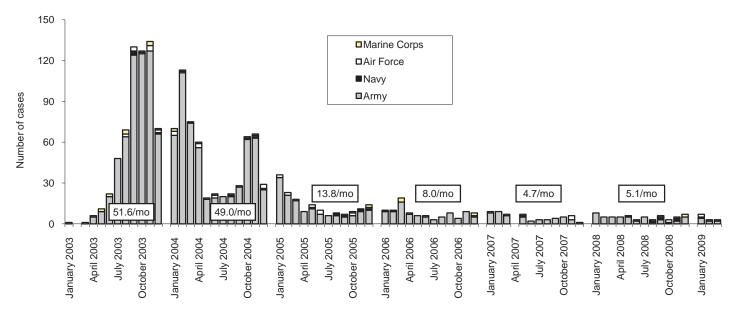


Reference: Army Medical Surveillance Activity. Deployment-related condition of special surveillance interest: severe acute pneumonia. Hospitalizations for acute respiratory failure (ARF)/acute respiratory distress syndrome (ARDS) among participants in Operation Enduring Freedom/Operation Iraqi Freedom, active components, U.S. Armed Forces, January 2003-November 2004. MSMR. Nov/Dec 2004;10(6):6-7.
†Indicator diagnosis (one per individual) during a hospitalization while deployed to/within 30 days of returning from OEF/OIF.

^{*}One diagnosis during a hospitalization or two or more ambulatory visits at least 7 days apart (one case per individual) while deployed to/within 90 days of returning from OEF/OIF.

Deployment-related conditions of special surveillance interest, U.S. Armed Forces, by month and service, January 2003 - March 2009 (data as of 27 April 2009)

Leishmaniasis (ICD-9: 085.0 to 085.9)*



Reference: Army Medical Surveillance Activity. Deployment-related condition of special surveillance interest: leishmaniasis. Leishmaniasis among U.S. Armed Forces, January 2003-November 2004. MSMR. Nov/Dec 2004;10(6):2-4.

^{*}Indicator diagnosis (one per individual) during a hospitalization, ambulatory visit, and/or from a notifiable medical event during/after service in OEF/OIF.

Commander
U.S. Army Center for Health Promotion
and Preventive Medicine
ATTN: MCHB-TS-EDM
5158 Blackhawk Road
Aberdeen Proving Ground, MD 21010-5422

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Inquiries regarding content or material to be considered for publication should be directed to: Editor, Armed Forces Health Surveillance Center, 2900 Linden Lane, Suite 200 (Attn: MCHB-TS-EDM), Silver Spring, MD 20910. E-mail: msmr.afhsc@amedd.army.mil

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